Service Manual

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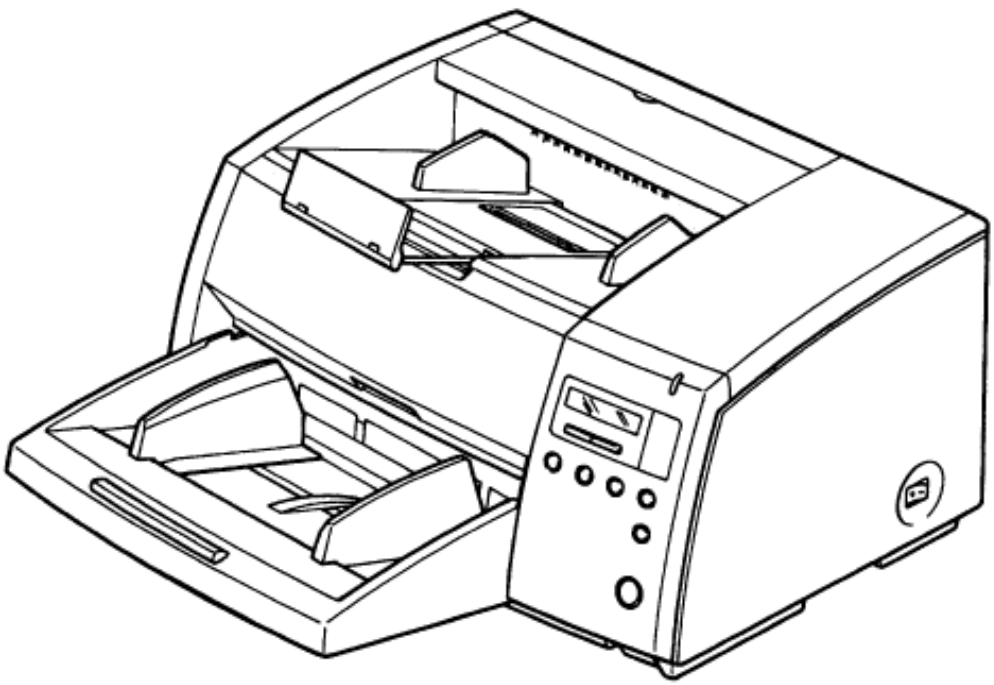
ORDER NO. KM70104623C0

G14

Service Manual

High Speed Scanner

- KV-S2065L/KV-S2065W



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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 GENERAL PRECAUTIONS

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1.1 Safety Precautions

1.2 Electrical Tests

1.3 For Service Technicians

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1.1 Safety Precautions

1. Before servicing, unplug the power cord to prevent electrical shock hazard.

2. When replacing parts, user only manufacture s recommended components for safety.

3. Check the condition of power cord. Replace if wear or damage is evident.

4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.

5. Before returning the serviced equipment to the customer, perform the following electrical tests to prevent shock hazard.

1.2 Electrical Tests

1. Unplug the power cord and check for continuity between the earth ground connection on the plug and the Interface Board Cover. There should be zero ohm resistance

2. With the unit unplugged, short the AC live-neutral of the plug with a jumper wire.

3. Turn ON the power switch.

4. Measure the resistance value with an ohmmeter between the jumpered AC plug and an exposed metal cabinet part, such as screwheads, etc. (Refer to Fig.2)

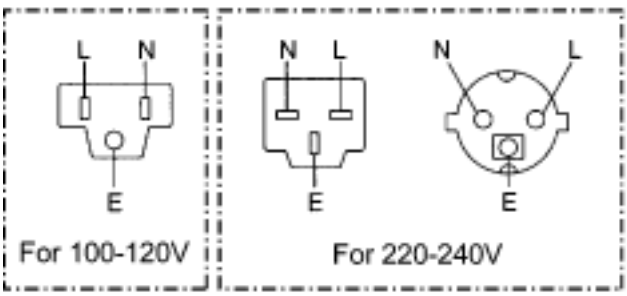
   Note:

   Some exposed parts may be isolated from the chassis by design. They read infinity.

5. If the measurement is less than 1MΩ, a possibility for electric shock may exit.

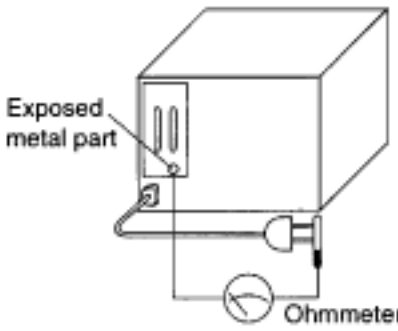
   Note:

   This hazardous condition must be corrected before the unit is returned to the end user.



L:Live, N:Neutral, E:Earth Ground

Fig.1



Resistance > Approx. 1M ohm

Fig.2

1.3 For Service Technicians

ICs and LSIs are vulnerable to static electricity. When repairing, the following precautions will help to prevent recurring malfunctions.

1. Cover the plastic parts with aluminum foil.
2. Ground the soldering irons.
3. Use a conductive mat on the worktable.
4. Do not grasp IC or LSI pins with bare fingers.

2 SPECIFICATION

Item			Model No.	
			KV-S2065L	KV-S2065W
Scanner	Scanning face		Duplex scanning	
	Scanning method		Front side: CIS (Contact Type Image Sensor) Back side: CIS (Contact Type Image Sensor)	
	Scanning speed		Simplex scanning: Approx. 60 ppm (Letter, fed lengthwise, 200 dpi) Duplex scanning: Approx. 110 ipm (Letter, fed lengthwise, 200 dpi)	
	Resolution		Main scanning direction: 100-600 dpi (1 dpi step) Sub-scanning direction: 100-600 dpi (1 dpi step) (Same as main scanning direction) Optical resolution is 400 dpi.	
	Tonal gradation		Binary mode, Grayscale mode (4/8 bit), 64-step gradation (dither) mode, 64-step gradation (error diffusion) mode	
	Image control		Image emphasis, Dynamic threshold (DIMM required), Automatic threshold, Automatic separation, Monochrome reversing, Automatic back control	
	Compression		MH, MR, MMR	
	Paper	Size	Scanning size: 48 x 70mm (1.9 x 2.75 in.) to 216 x 431mm (8.5 x 17 in.) Feeding size: 48 x 70mm (1.9 x 2.75 in.) to 305 x 838mm (12 x 33 in.)	Scanning size: 48 x 70mm (1.9 x 2.75 in.) to 298 x 431mm (11.7 x 17 in.) Feeding size: 48 x 70mm (1.9 x 2.75 in.) to 305 x 838mm (12 x 33 in.)
		Thickness	Single paper feeding: 0.025 to 0.2mm (1.0 to 7.9 mils) Continuous paper feeding: 0.06 to 0.2mm (2.4 to 7.9 mils) Note: 1 mil=1/1000 in.	
		Weight	Single paper feeding: 20 to 157g/m2 (5.3 to 42 lbs.) Continuous paper feeding: 50 to 157g/m2 (13 to 42 lbs.)	
	Interface (Transfer rate)		SCSI 3 (20MB/sec), 50pin	
Unit	External dimensions(WidthxDepthxHeight)		495 x 575 x 246mm (19.5 x 22.6 x 9.7 in.)	
	Mass (Weight)		19kg (41.8 lbs.)	
	Power requirement		AC100-120V, 50/60Hz AC220-240V, 50/60Hz	
	Power consumption	Maximum(Scanning)	1.3A (AC100-120V)/98W0.8A (AC220-240V)/98W	
		Minimum(Standby)	0.5A (AC100-120V)/30W0.3A (AC220-240V)/30W	
		Sleep mode	0.13A (AC100-120V)/11W 0.07A (AC220-240V)/11W	
Operating Environment	Operating temperature and humidity		15°C to 30°C (59°F to 86°F), 30% to 80% RH	
Storage Environment	Storage temperature and humidity		0°C to 35°C (32°F to 95°F), 10% to 80% RH	

Option	Roller exchange kit (KV-SS009), Imprinter option (KV-SS010), Roller cleaning paper (KV-SS03), Ink cartridge (KV-SS06), White roller kit for KV-S2065W (KV-SS048), White roller kit for KV-S2065L (KV-SS071)

Weight in pounds represents the weight of 500 [17x22 inches (432x559mm)] sheets.

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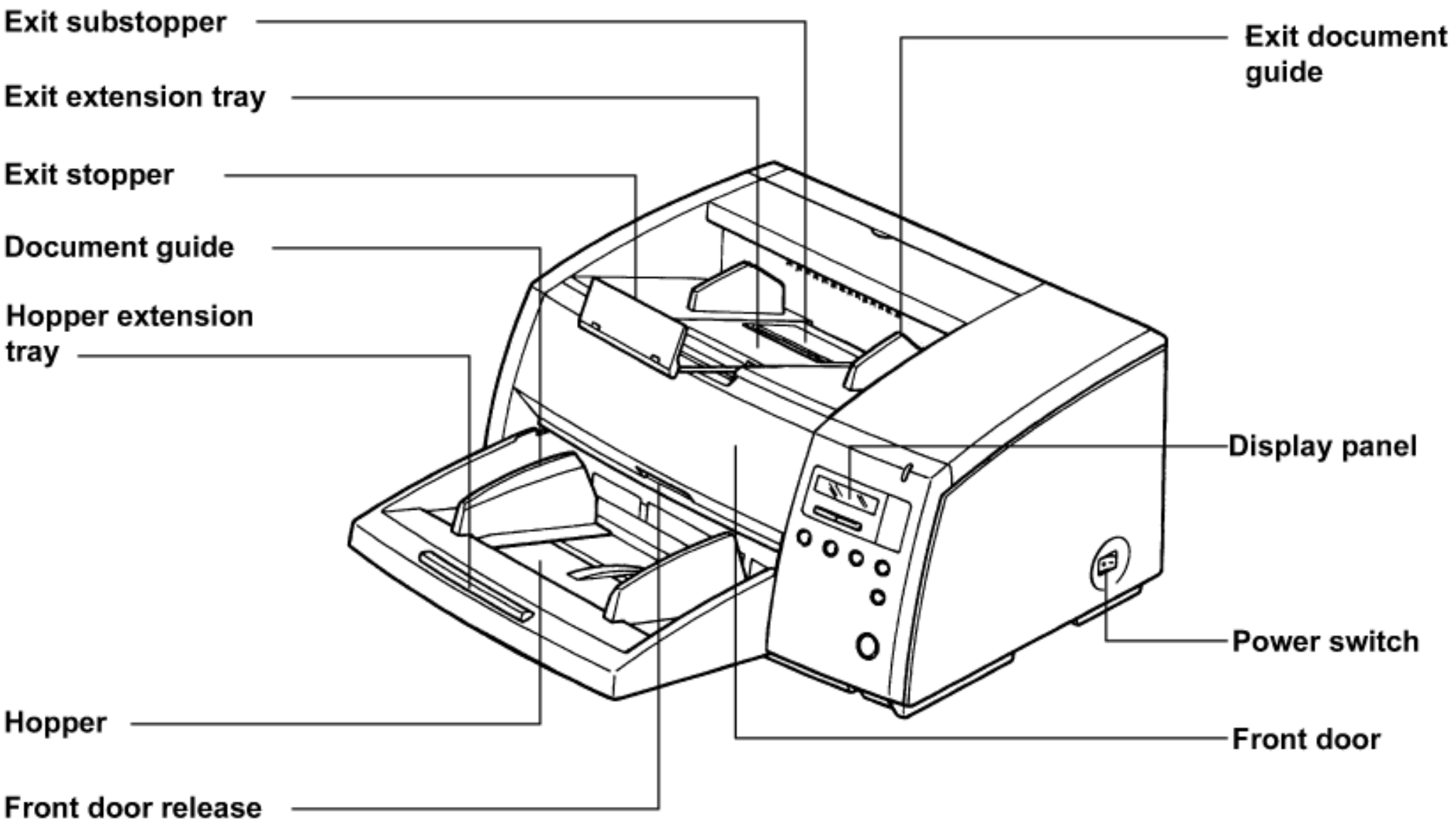
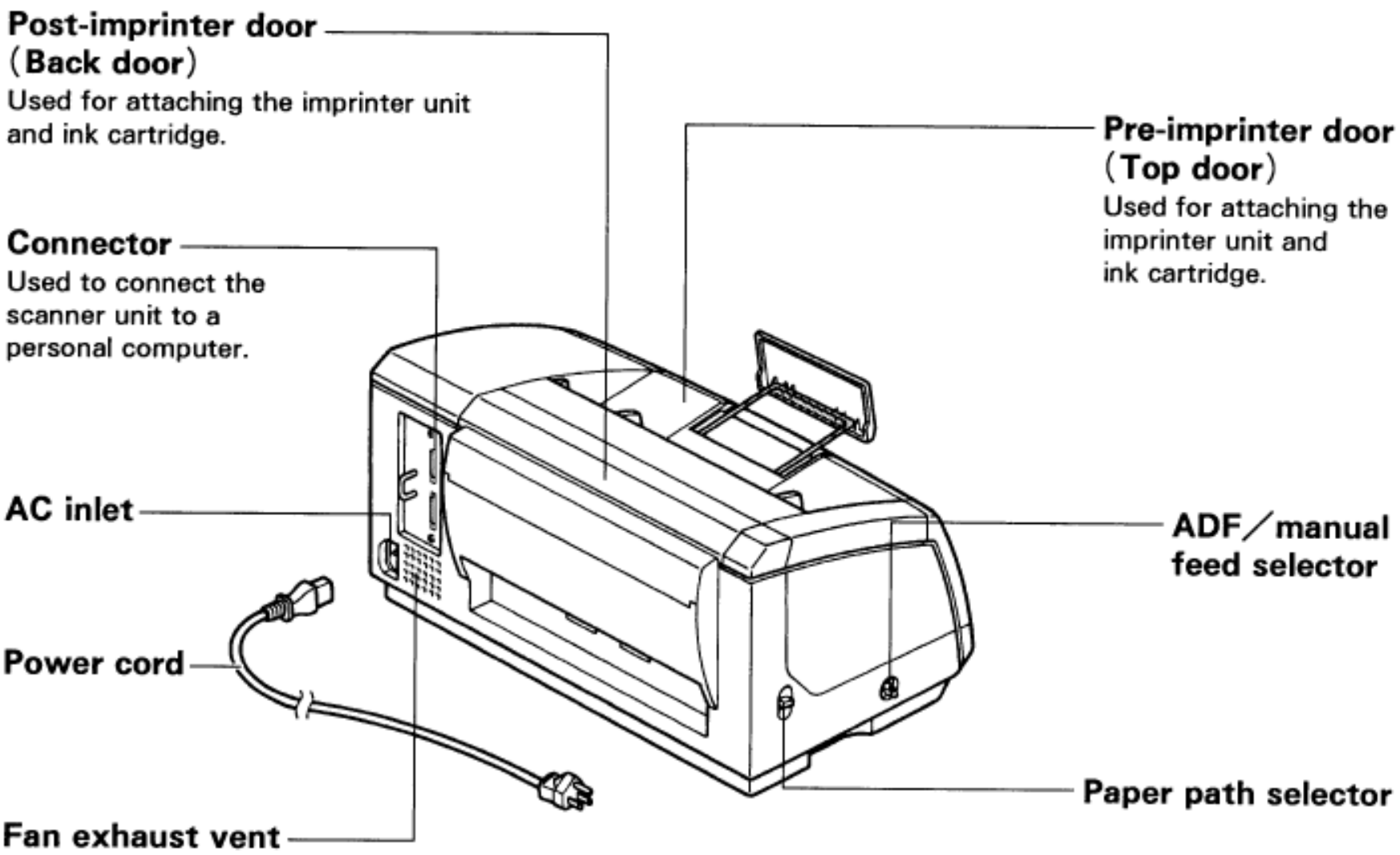
3 COMPONENT IDENTIFICATION



Inside the pre-imprinter door.


Post-imprinter door
(Back door)
Used for attaching the imprinter unit and ink cartridge.
Connector
Used to connect the scanner unit to a personal computer.
AC inlet
Power cord
Fan exhaust vent
Pre-imprinter door
(Top door)
Used for attaching the imprinter unit and ink cartridge.
ADF/manual feed selector
Paper path selector

4 INSTALLATION

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4.1 Minimum Space Requirements

4.2 Removing and Keeping Screw and Fixture

4.3 DIMM Module Extension

4.4 Removing SCSI Board

4.5 Installing DIMM Module

4.6 Installing the SCSI Board

4.7 Connecting the Unit to a Personal Computer

4.8 System Conditions Requirements

4.9 LCD Settings

4.9.1 Setting the language

4.9.2 Setting the SCSI ID and Terminator

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4.1 Minimum Space Requirements

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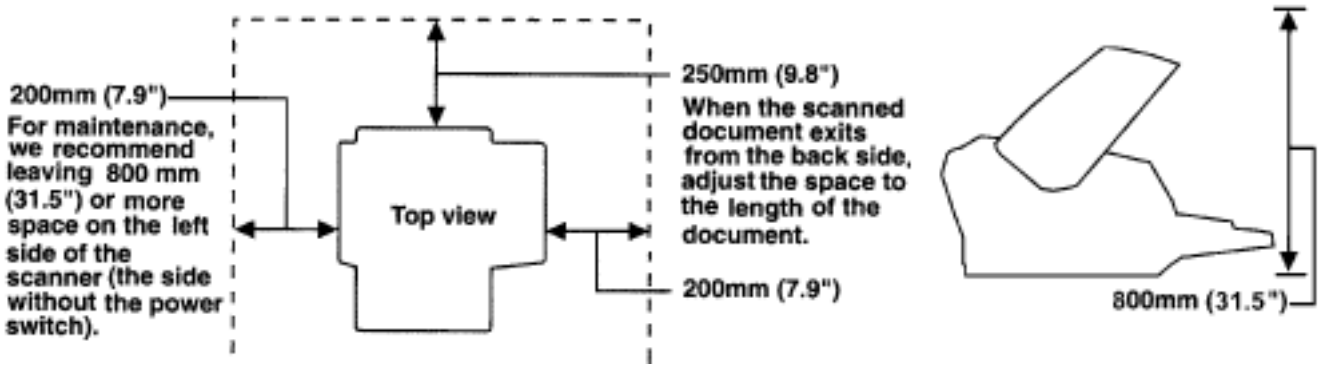
Be sure to maintain the recommended space requirements for proper ventilation.


200mm (7.9")
For maintenance, we recommend leaving 800 mm (31.5") or more space on the left side of the scanner (the side without the power switch).
Top view
250mm (9.8")
When the scanned document exits from the back side, adjust the space to the length of the document.
200mm (7.9")
800mm (31.5")

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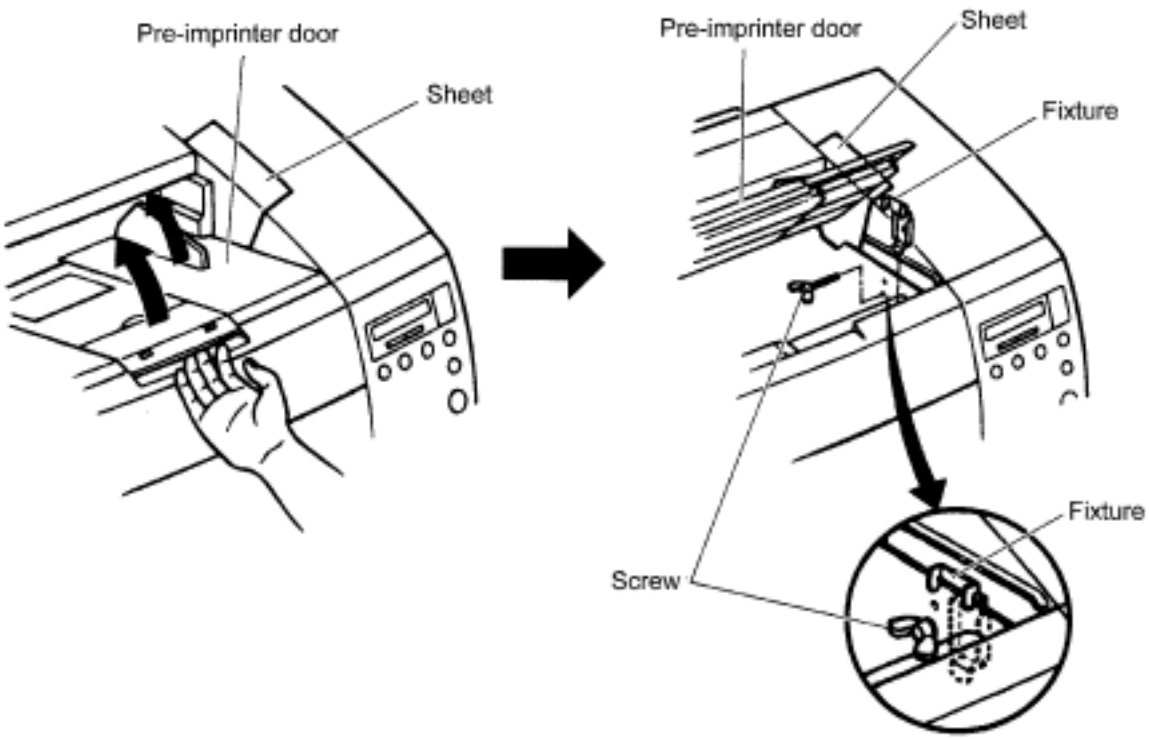
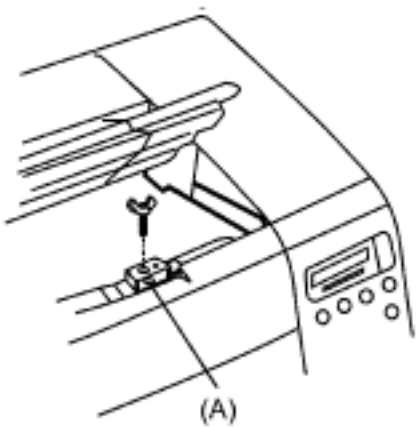
4.2 Removing and Keeping Screw and Fixture



Before using, open the pre-imprinter door and remove the screw, fixture and transportation sheet.
Store the screw, fixture at (A) position as shown on the right figure, and store sheet in a safe location.
When transporting the unit again, reattach the screw, fixture and sheet in its original location.



4.3 DIMM Module Extension

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A maximum of 256 MB extended memory may be required depending on the combination of the paper size, resolution and gray scale mode.

To determine how much extended memory is required, refer to the following page Additional Memory Size each scanning mode (MB) .

* Recommended DIMM

- JEDEC-standard 168pin, dual in-line memory module (DIMM)
- Non buffered
- Single +3.3V±0.3V power supply
- Frequency/ CAS Latency : 100MHz/CL=2, 133MHz/CL=2, 133MHz/CL=3
- 64MB, 128MB or 256MB may be used.

(Reference) DIMM module which has been evaluated using this scanner

- Manufacturer: DELKIN DEVICES
    1. Model No.: DM168-064Y3Q488-10S2P (64MB)
    2. Model No.: DM168-064Y3Q446-10S2P (64MB)
    3. Model No.: DM168-128Y3Q488-10S4P (128MB)

Note:

Originally, SCSI board has 16MB memory except for the above additional memory.

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4.4 Removing SCSI Board

1) Make sure the Power is OFF.

2) Remove SCSI Board. (See 8.3.15)

Additional Memory Size each scanning mode (MB)

Simplex/4bit, 8bit

Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	64	64	64	128
A4	0	0	0	0	64	64
A5	0	0	0	0	0	64
A6	0	0	0	0	0	0
B4 (JIS)	0	0	0	64	64	64
B5 (JIS)	0	0	0	0	64	64
B6 (JIS)	0	0	0	0	0	0
Double Letter	0	0	64	64	64	128
Legal	0	0	0	64	64	64
Letter	0	0	0	0	64	64

Duplex/4bit, 8bit

Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	64	64	128	256
A4	0	0	64	64	64	128
A5	0	0	0	0	64	64
A6	0	0	0	0	0	64
B4 (JIS)	0	0	64	64	128	128
B5 (JIS)	0	0	0	64	64	64
B6 (JIS)	0	0	0	0	64	64
Double Letter	0	0	64	64	128	256
Legal	0	0	64	64	64	128
Letter	0	0	64	64	64	128

Simplex/Binary

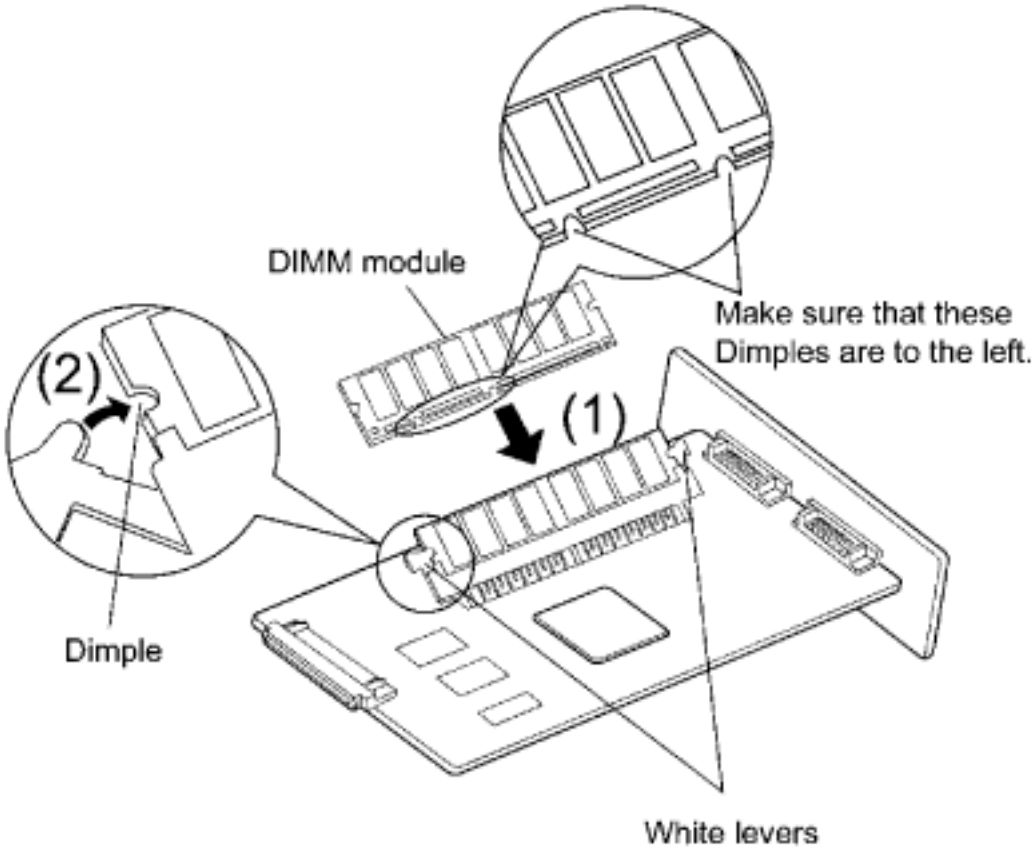
Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	0	0	0	0
A4	0	0	0	0	0	0
A5	0	0	0	0	0	0
A6	0	0	0	0	0	0
B4 (JIS)	0	0	0	0	0	0
B5 (JIS)	0	0	0	0	0	0
B6 (JIS)	0	0	0	0	0	0
Double Letter	0	0	0	0	0	0
Legal	0	0	0	0	0	0
Letter	0	0	0	0	0	0

Duplex/Binary

Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	0	0	0	64
A4	0	0	0	0	0	0
A5	0	0	0	0	0	0
A6	0	0	0	0	0	0
B4 (JIS)	0	0	0	0	0	0
B5 (JIS)	0	0	0	0	0	0
B6 (JIS)	0	0	0	0	0	0
Double Letter	0	0	0	0	0	64
Legal	0	0	0	0	0	0
Letter	0	0	0	0	0	0

4.5 Installing DIMM Module

Insert the DIMM module into the connector on the SCSI interface board at an angle [Place (1)]. Push in the module as far as it goes. The levers should lock automatically. If not, push the levers tolock the module in [Place (2)].



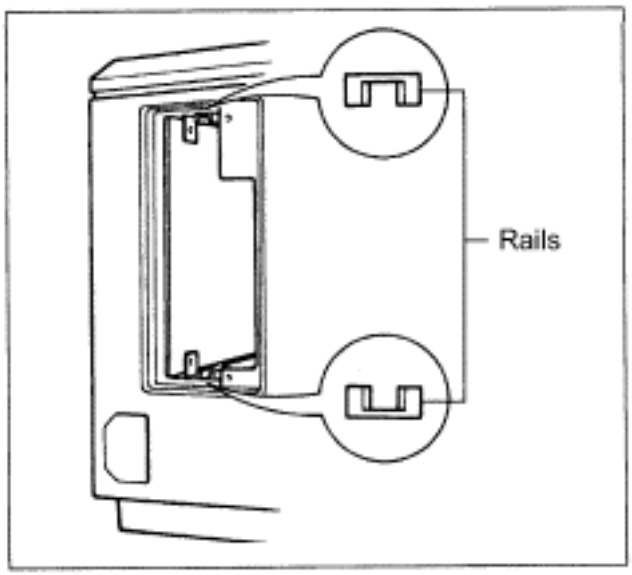
Note:

- Be sure that the DIMM module will be in the proper position and the proper side.
- To remove the DIMM module, release the white levers at both sides of the connector.

4.6 Installing the SCSI Board

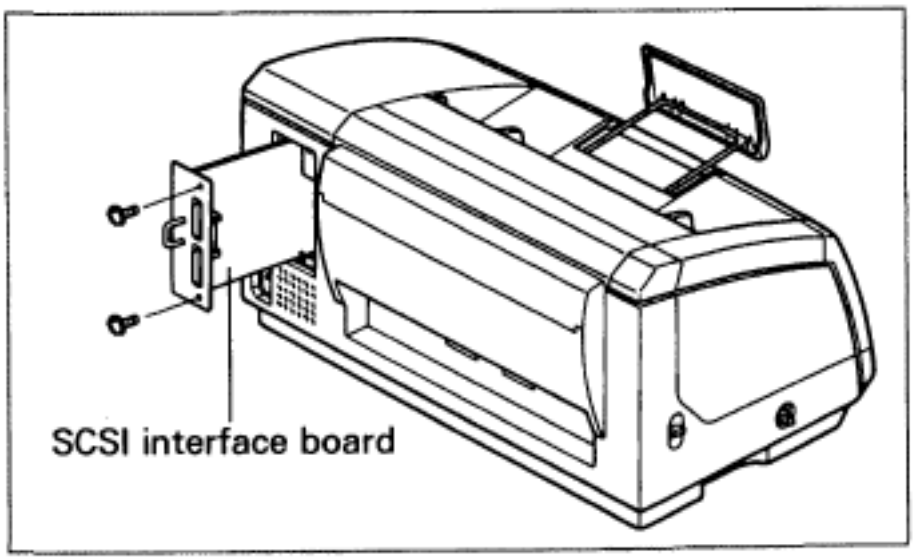
1) Insert the SCSI Board into the unit along the rails and push it in firmly.

Confirm that the SCSI board plate is fully inserted until it firmly locks in place.



2) Secure the SCSI Board with the 2 screws.

3) Install the scanner driver software in your computer according to the enclosed manuals.



4.7 Connecting the Unit to a Personal Computer

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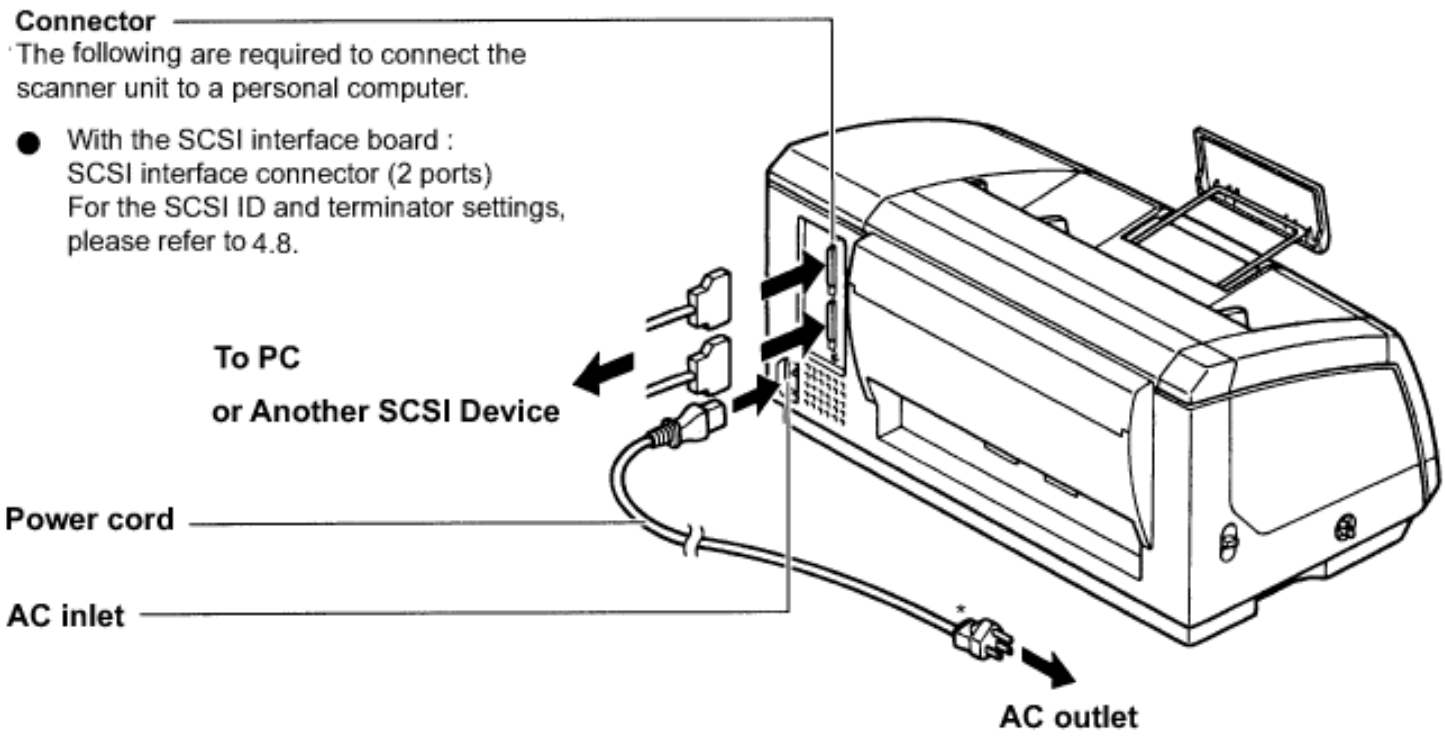
Connector
The following are required to connect the scanner unit to a personal computer.
With the SCSI interface board :
SCSI interface connector (2 ports)
For the SCSI ID and terminator settings, please refer to 4.8.
To PC
or Another SCSI Device
Power cord
AC inlet
AC outlet

Note:

* AC cord shown on the figure is for AC100-120V.

Caution :

Set the power switch on the scanner and on the personal computer to OFF before connecting the interface cable.

Use only the power cord that is supplied by the manufacturer.

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4.8 System Conditions Requirements

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When using the scanner, the required personal computer conditions are as follows.

CPU	Pentium 166MHz or higher (Pentium, Celeron processor or higher is recommended.
Memory	64 MB or higher (128 MB or higher is recommended.)
OS	Windows 95/Windows 98/Windows NT/Windows2000/Windows Me
SCSI board	Adaptec Brand AHA-1540/2930/2940/19160/29160 Series are recommended.

* The scanning speed differs depending on the personal computer operating environment or application.

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4.9 LCD Settings

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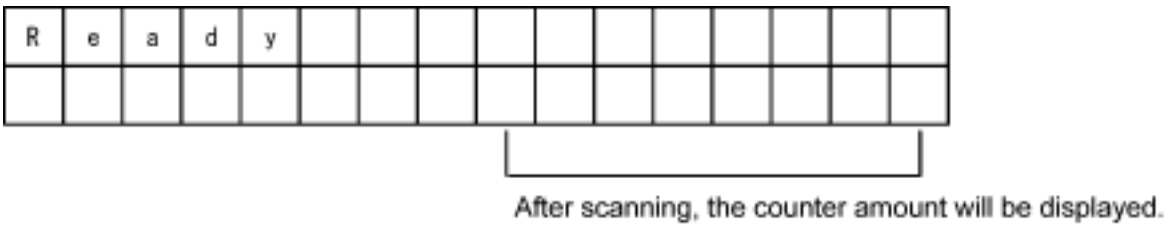
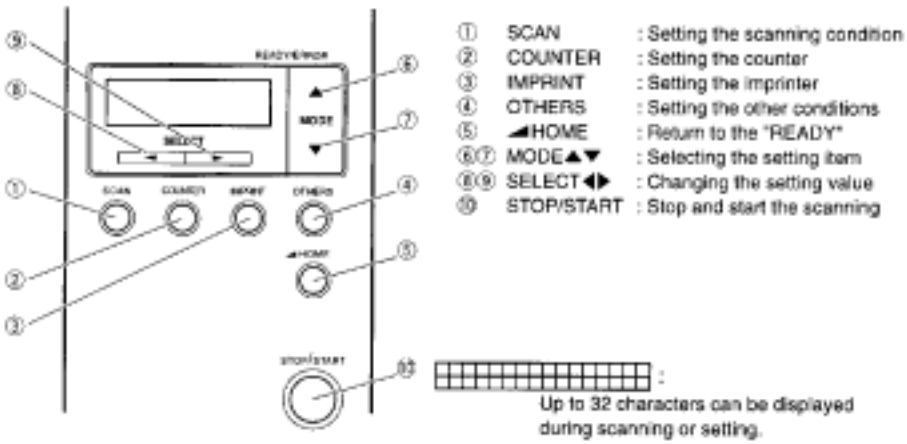
Before scanning the document, perform the required settings on the display. Setting information and scanner conditions are shown on the display.




① SCAN : Setting the scanning condition
② COUNTER : Setting the counter
③ IMPRINT : Setting the imprinter
④ OTHERS : Setting the other conditions
⑤ HOME : Return to the "READY"
⑥⑦ MODE : Selecting the setting item
⑧⑨ SELECT : Changing the setting value
⑩ STOP/START : Stop and start the scanning
Up to 32 characters can be displayed during scanning or setting.

4.9.1 Setting the language

4.9.2 Setting the SCSI ID and Terminator

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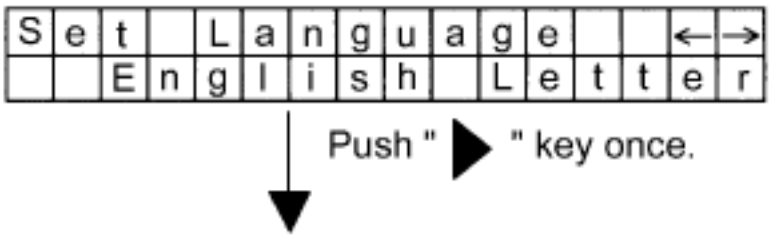
4.9.1 Setting the language

1. Turn the power on while pressing the HOME key.

   Note:

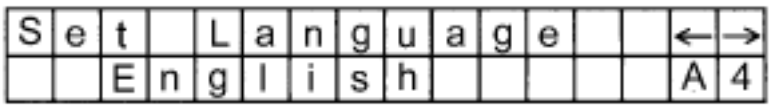
   The language setting mode is selected automatically when the unit s power is turned on for the first time after the unit was purchased.



1. Use the [

   ◂] key or [

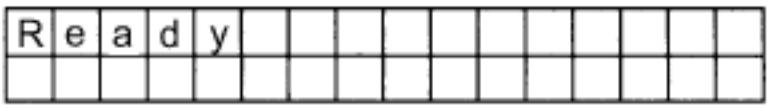
   ▸] key to select the English Letter , English A4 or DeutschA ニホンゴ A4 .



1. Press the HOME key.

   ❍ The display will change to the select language, then the scanner will be ready.

   ❍ This setting will remain until it is changed to another setting.



4.9.2 Setting the SCSI ID and Terminator

1. Press the OTHERS Key.

   Enters setting modes other than SCAN, COUNTER, or IMPRINT and displays the version

0	1	.	V	e	r	s	i	o	n						
						M	1	.	0	0	F	1	.	0	0

1. Press the MODE Key.

   Press the MODE Key [

   ▲] to display the SCSI ID, which is the fourth setting.

0	4	.	S	C	S	I		I	D						
												N	o	.	5

1. Press the SELECT [

   ◀] Key or [

   ▶] Key to select the desired setting.

   The [

   ▶] Key moves to the next ID as shown below.

   The [

   ◀] Key moves to the previous ID.

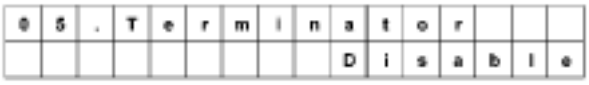
   ┌ 0 → 1 → 2 → 3 → 4 → 5 → 6 → 7 ┐

0	4	.	S	C	S	I		I	D						
												N	o	.	7

1. Press the MODE Key [

   ▲] to switch to the terminator setting.

To active the SCSI ID settings, press the HOME Key to return to READY , then turn the unit off and on.



1. Press the SELECT [

   ◂] Key or [

   ▸] Key to select the desired setting.

   The [

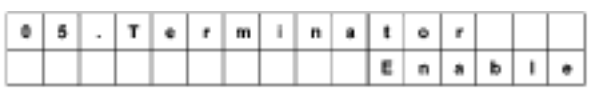
   ▸] Key moves to the next content as shown below.

   The [

   ◂] Key moves to the previous content.

Note:

- If the scanner is the last device in the SCSI chain, then the terminator should be set to Enable . But, under the above SCSI chain and scanner s turn-off, the terminator should be attached to the SCSI connectoron the scanner.
- Setting the SCSI ID will be activated after turning the power OFF and turning it ON again.
- Setting the terminator will be activated after turning the power OFF and turning it ON again.



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5 SECTIONAL VIEWS

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5.1 Image Sensors, Motors and Imprinters (Option)

5.2 Rollers

5.3 Circuit Boards

5.4 Sensor Boards and Switches

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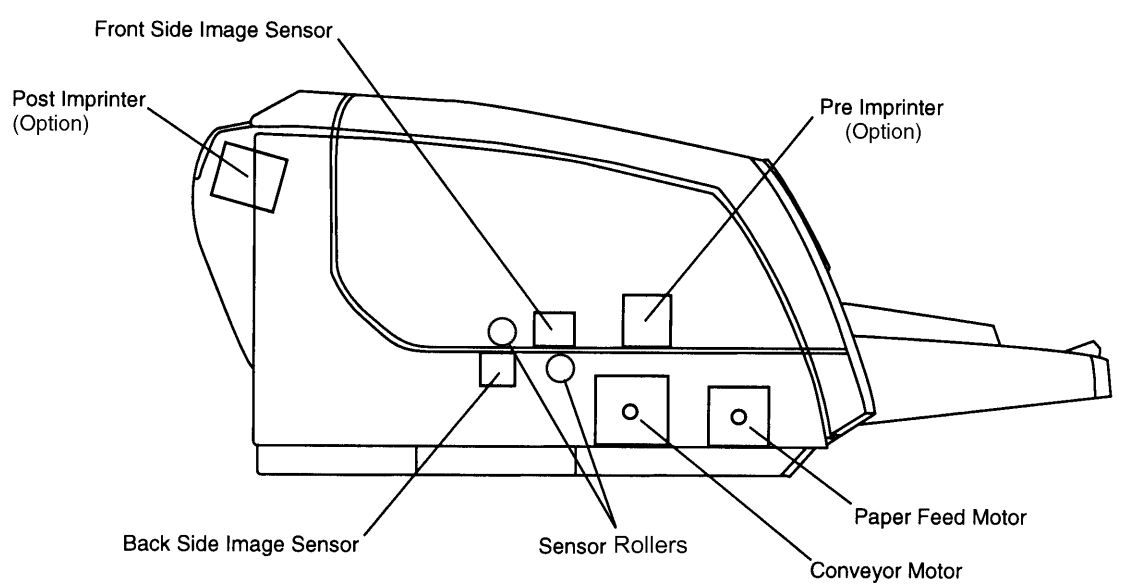
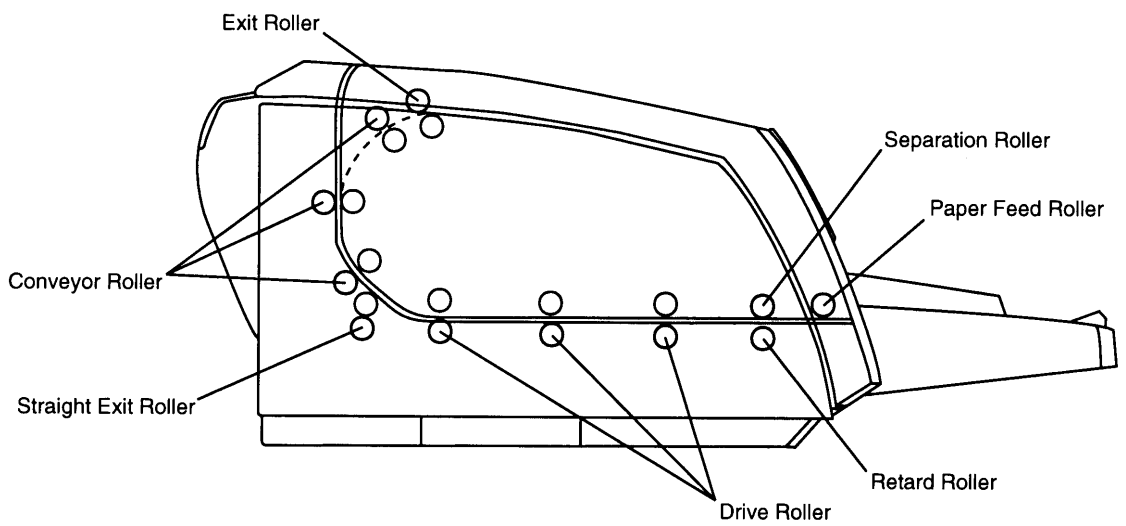
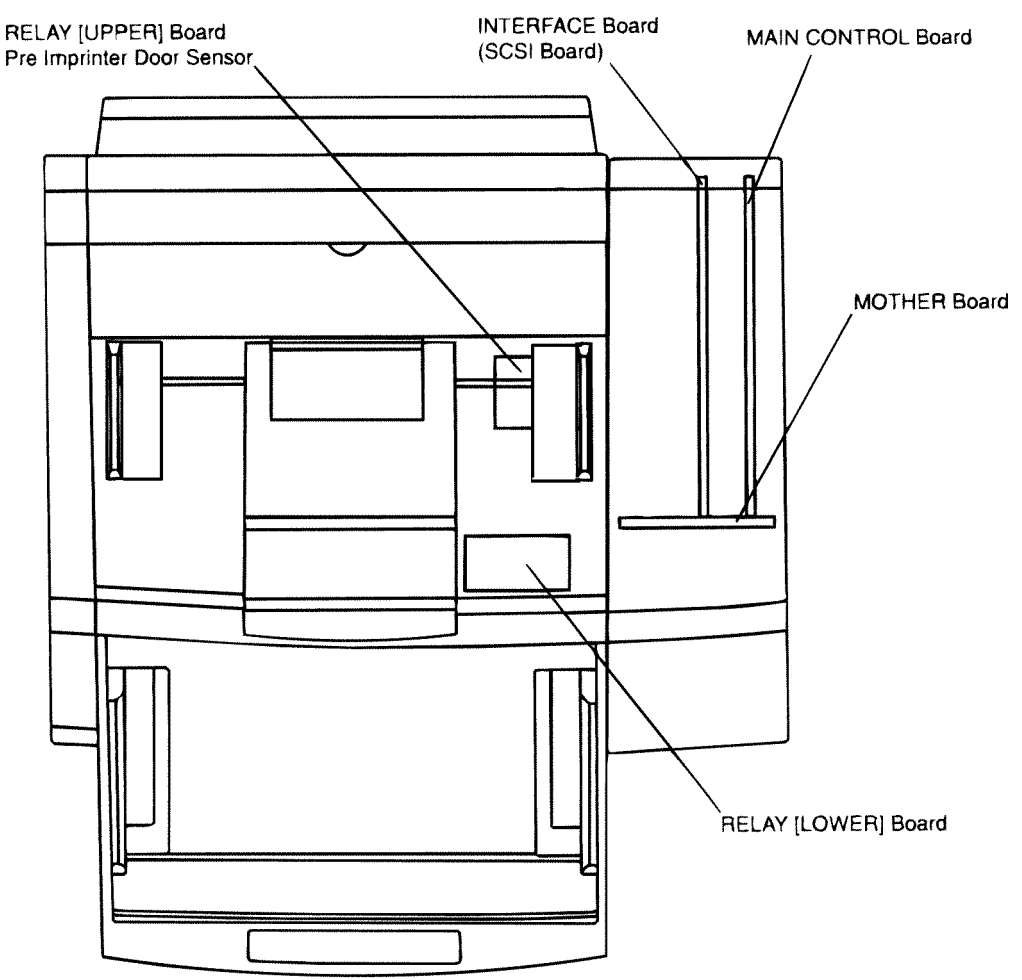
5.1 Image Sensors, Motors and Imprinters (Option)

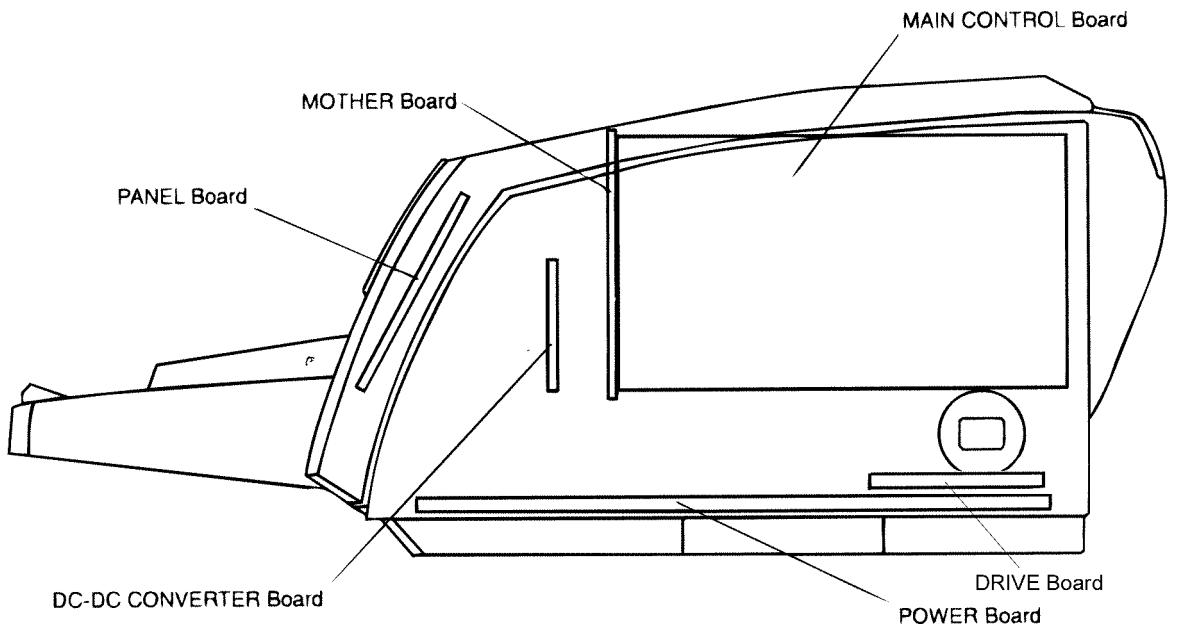

Front Side Image Sensor
Post Imprinter
(Option)
Pre Imprinter
(Option)
Back Side Image Sensor
Sensor Rollers
Paper Feed Motor
Conveyor Motor

5.2 Rollers

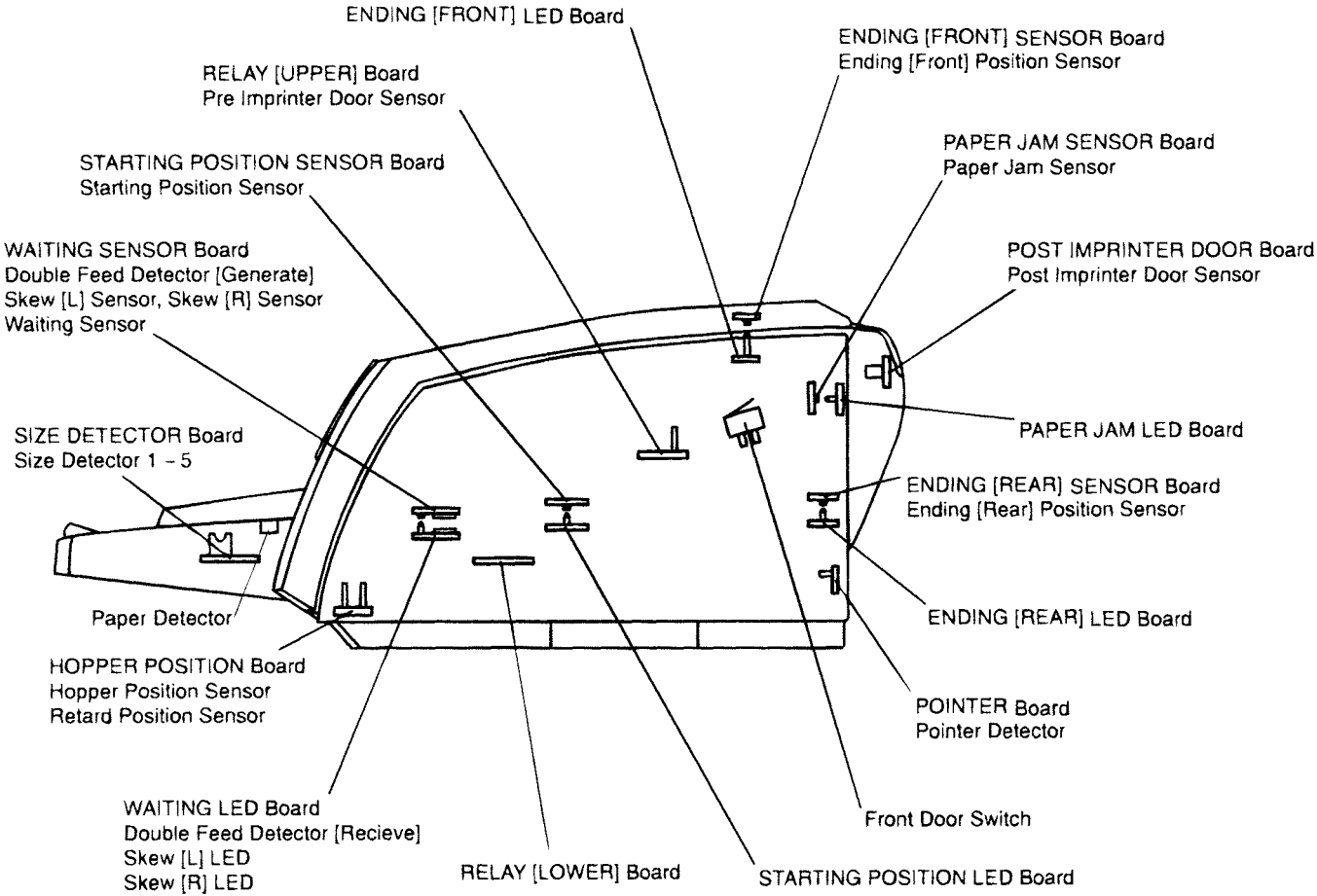

Exit Roller
Separation Roller
Paper Feed Roller
Conveyor Roller
Straight Exit Roller
Retard Roller
Drive Roller

5.3 Circuit Boards


RELAY [UPPER] Board
Pre Imprinter Door Sensor
INTERFACE Board
(SCSI Board)
MAIN CONTROL Board
MOTHER Board
RELAY [LOWER] Board


MAIN CONTROL Board
MOTHER Board
PANEL Board
DC-DC CONVERTER Board
DRIVE Board
POWER Board

5.4 Sensor Boards and Switches


ENDING [FRONT] LED Board
ENDING [FRONT] SENSOR Board
Ending [Front] Position Sensor
RELAY [UPPER] Board
Pre Imprinter Door Sensor
PAPER JAM SENSOR Board
Paper Jam Sensor
STARTING POSITION SENSOR Board
Starting Position Sensor
POST IMPRINTER DOOR Board
Post Imprinter Door Sensor
WAITING SENSOR Board
Double Feed Detector [Generate]
Skew [L] Sensor, Skew [R] Sensor
Waiting Sensor
PAPER JAM LED Board
SIZE DETECTOR Board
Size Detector 1 - 5
ENDING [REAR] SENSOR Board
Ending [Rear] Position Sensor
ENDING [REAR] LED Board
Paper Detector
HOPPER POSITION Board
Hopper Position Sensor
Retard Position Sensor
POINTER Board
Pointer Detector
WAITING LED Board
Double Feed Detector [Recieve]
Skew [L] LED
Skew [R] LED
Front Door Switch
RELAY [LOWER] Board
STARTING POSITION LED Board

6 MECHANICAL FUNCTION

TOP PREVIOUS NEXT

6.1 Paper Feed Mechanism

6.2 Manual Feed Mechanism and ADF Adjustment

TOP PREVIOUS NEXT

6.1 Paper Feed Mechanism

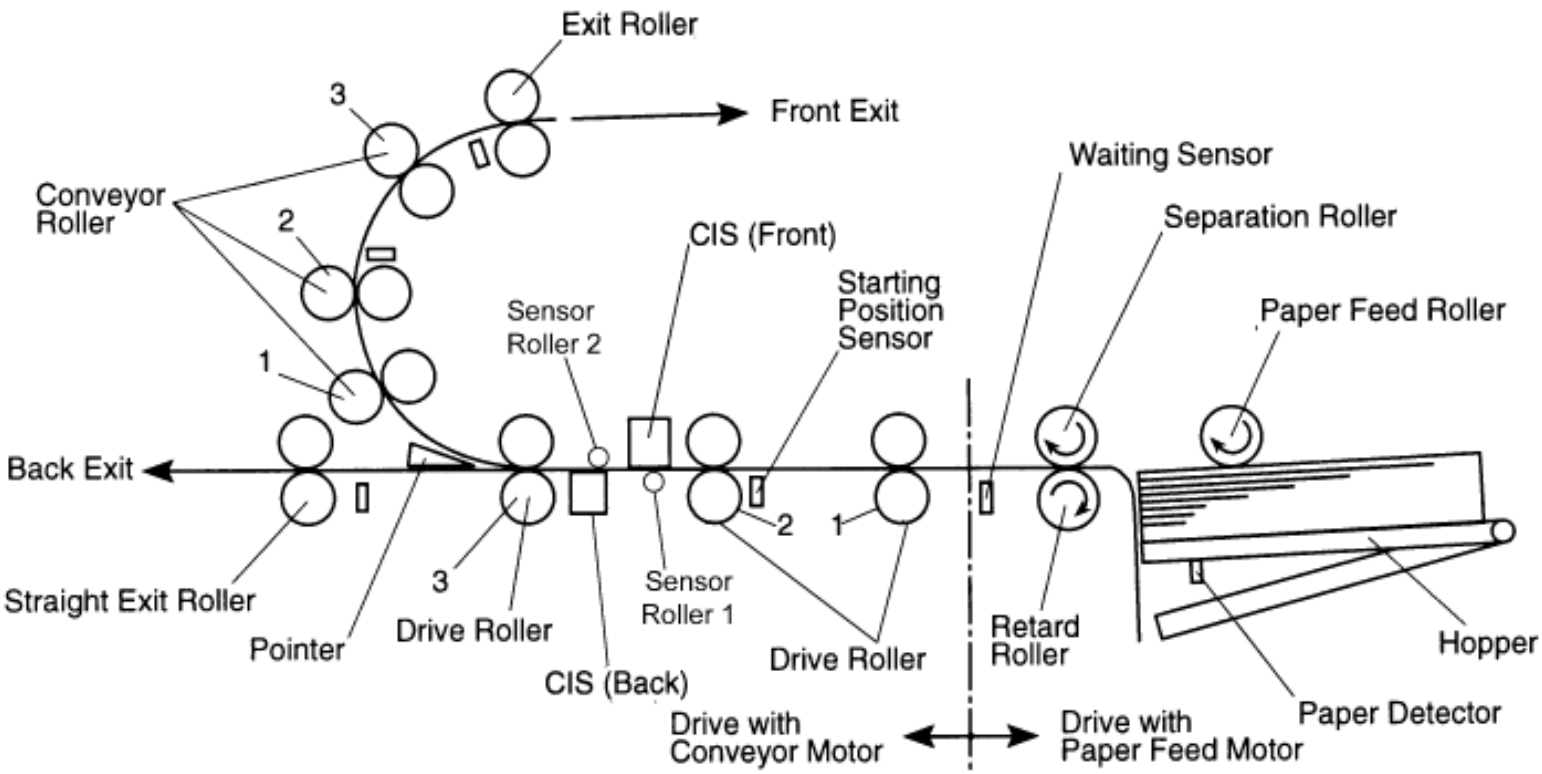


Fig. 6-1

1. When PC outputs the scanning-start command, the Hopper lifts until the paper contacts the Paper Feed Roller.

2. The Conveyor Motor is transferred to the rotation of the Conveyor Rollers, Drive Rollers and Exit Roller.

3. The Paper Feed Motor drives the Paper Feed Roller, the Separation Roller, and the Retard Roller. The Paper Feed Roller and the Separation Roller always rotate in the paper feed direction ( ). The Retard Roller rotates against the paper feed direction ( ) when there is more than one sheet between the Separation Roller and the Retard Roller. On the otherhand when there is only one sheet or there no sheet, the Retard Roller rotates in the same direction as the Feed.

   Note:

   The scanner has a multiple sheet feed mode that keeps the Retard Roller separated from the Separation Roller when scanning multiple feeds.

4. When the leading edge of a sheet is passed into the paper feed route by rotating the Paper Feed Roller, the paper passes through the Separation Roller and Retard Roller. Because the Retard Roller is rotating against the feed direction, inadvertent multiplefeeds are prevented.

5. When the Starting Position Sensor detects the top of the first page, the Paper Feed Motor, the Paper Feed Roller, the Separation Roller, and the Retard Roller are stopped. When the top of the paper reaches the Front-side Scanning

Start-position,activating the Starting Position Sensor, CIS starts to scan the data on the page. And the Back-side Scanning Start process is same as Front-side Scanning.

6. When the Waiting Sensor detects the end of the first page, the Paper Feed Motor starts to rotate again. As a result, the second page is passed into the paper feed route. The process to separate the following pages from the second page is thesame as the first item (3) and (4).

7. When the Waiting Sensor detects the top of the second page, the Paper Feed Motor stops to keep this page between the Waiting Sensor and Driving Roller 1.

8. When the PC outputs the scanning-start command to scan the second page, The Paper Feed Motor drives the paper into the paper feed path again.

   Step (5) to (8) are repeated for each subsequent paper feed.

9. Front or Back Exit can be selected using the Paper Path Selector.

TOP PREVIOUS NEXT

6.2 Manual Feed Mechanism and ADF Adjustment

1. By setting the ADF/manual feed Selector to the Manual position you can separate the Retard Roller from the Separation Roller and scan one sheet or several sheets.

2. By setting the ADF/manual feed Selector to the ADF ADJ. position, the contact force between the Retard Roller and the Separation Roller goes up, according to the increment of the ADF ADJ. number. (1→2→ 3→4)

   Note:

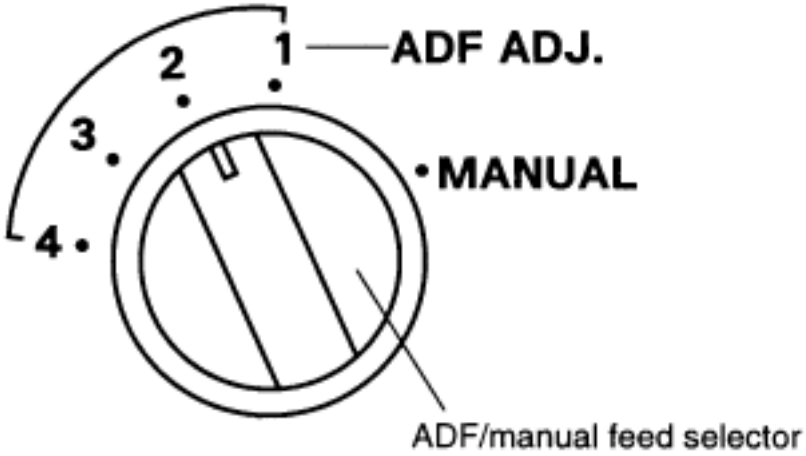
   (1) Normally, when scanning normal paper, set the ADF ADJ. to position 2 or 3 .

   (2) In case a double-feed problem occurs when scanning rough paper like NCR, set ADF ADJ. to 1 position.

   (3) When a jam occurs at the paper feed area or if using heavy paper, set the ADF/manual feed selector to 4 .

   - The ADF/manual feed selector must be set in the chosen specific position for this setting to function properly.

   - If double feed alarm beeps frequently, change the ADF/manual feed selector.



The ADF/manual feed selector is located on the left side of the scanner. **(Factory Setting: 2 or 3)**

TOP PREVIOUS NEXT

7 MAINTENANCE

TOP PREVIOUS NEXT

7.1 Maintenance Chart

7.2 Roller Cleaning

7.2.1 Paper Feed Roller, Separation Roller, Retard Roller

7.2.2 Drive Roller and Conveyor Rollers

7.3 CIS Glass, Document Sensors and Double Feed Detection Sensors Cleaning

7.4 Sensor Roller Cleaning

7.4.1 Re-attachment of the Sensor Roller Assembly

7.5 Replacing Limited Life Parts

TOP PREVIOUS NEXT

7.1 Maintenance Chart

C: Clean R: Replace (x1000 sheets)

Description		Part No.	50	100	150	200	250	300
Paper Feed Roller		PBDRA0064Z	C	C	C	C	C	R
Separation Roller		PBDRA0065Z	C	C	C	C	C	R
Retard Roller		PBDRA0066Z	C	C	C	C	C	R
Drive Roller 1		PBDRX01S2065	C	C	C	C	C	C
Drive Roller 2		PBDRX01S2065	C	C	C	C	C	C
Drive Roller 3		PBDRX01S2065	C	C	C	C	C	C
Conveyor Roller 1 -3		PBDRX02S2065	C	C	C	C	C	C
Straight Exit Roller		PBDRX02S2065	C	C	C	C	C	C
Exit Roller		PBDRX03S2065	C	C	C	C	C	C
Sensor Roller 1	for KV-S2065L	PBDRA0013Y-J	C	C	C	C	C	C
	for KV-S2065W	PBDRA0102X-J	C	C	C	C	C	C
Sensor Roller 2	for KV-S2065L	PBDRA0112Y-J	C	C	C	C	C	C
	for KV-S2065W	PBDRA0102X-J	C	C	C	C	C	C
CIS	for KV-S2065L	EQ4R219Q1	C	C	C	C	C	C
	for KV-S2065W	EQ4R300Q1	C	C	C	C	C	C
Free Roller		PBDRA0029Z	C	C	C	C	C	C

Note 1:

The above values for each maintenance item are registered in the maintenance counter (Refer to Section 9), and the LCD informs the user when each condition occurs. All other counters can be observed using service mode.

Note 2:

This maintenance schedule was determined according to paper standards (A4 or letter, 16lb copier paper), which can vary greatly between users. Therefore, the values can also vary.

Note 3:

Roller exchange kit KV-SS009 (Roller assembly, including Paper Feed Roller, Separation Roller, and Retard Roller) can be used as a replacement.

This product KV-SS009 is supplied via sales route.

7.2 Roller Cleaning

TOP PREVIOUS NEXT

7.2.1 Paper Feed Roller, Separation Roller, Retard Roller

7.2.2 Drive Roller and Conveyor Rollers

TOP PREVIOUS NEXT

7.2.1 Paper Feed Roller, Separation Roller, Retard Roller

1. Turn off the Power.

2. Open the Front door.

3. Clean the surfaces of the Paper Feed Roller and Separation Roller and Separation Roller with cleaning paper (KV-SS03).

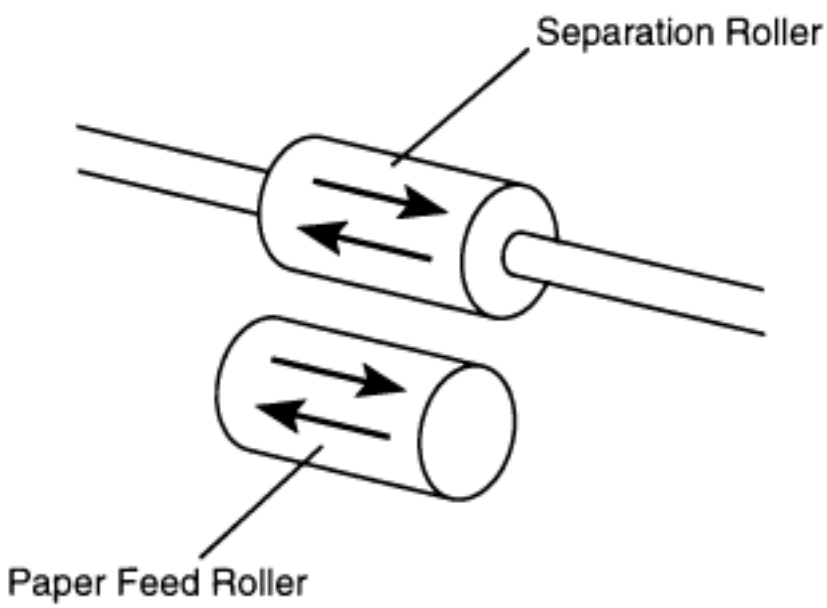


Fig. 7-1

4. Clean the surface of the Retard Roller.

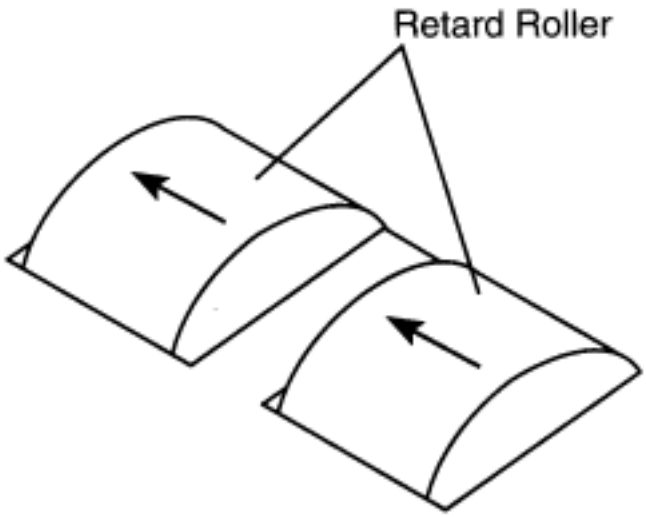


Fig. 7-2

Note 1:

Make sure to clean the Retard Roller from right to left.

If the roller is cleaned from left to right, it may slip out of position.

Note 2:

After cleaning the above rollers, clear Clean Roller Warning on Other Setting Mode as shown in Section 9.

TOP PREVIOUS NEXT

7.2.2 Drive Roller and Conveyor Rollers

1. Turn off the Power.

2. Open the Front door.

3. Clean the Driver and Conveyor Rollers with cleaning paper (KV-SS03), as shown in Fig. 7-3 (same as cleaning the Plastic Free Roller).

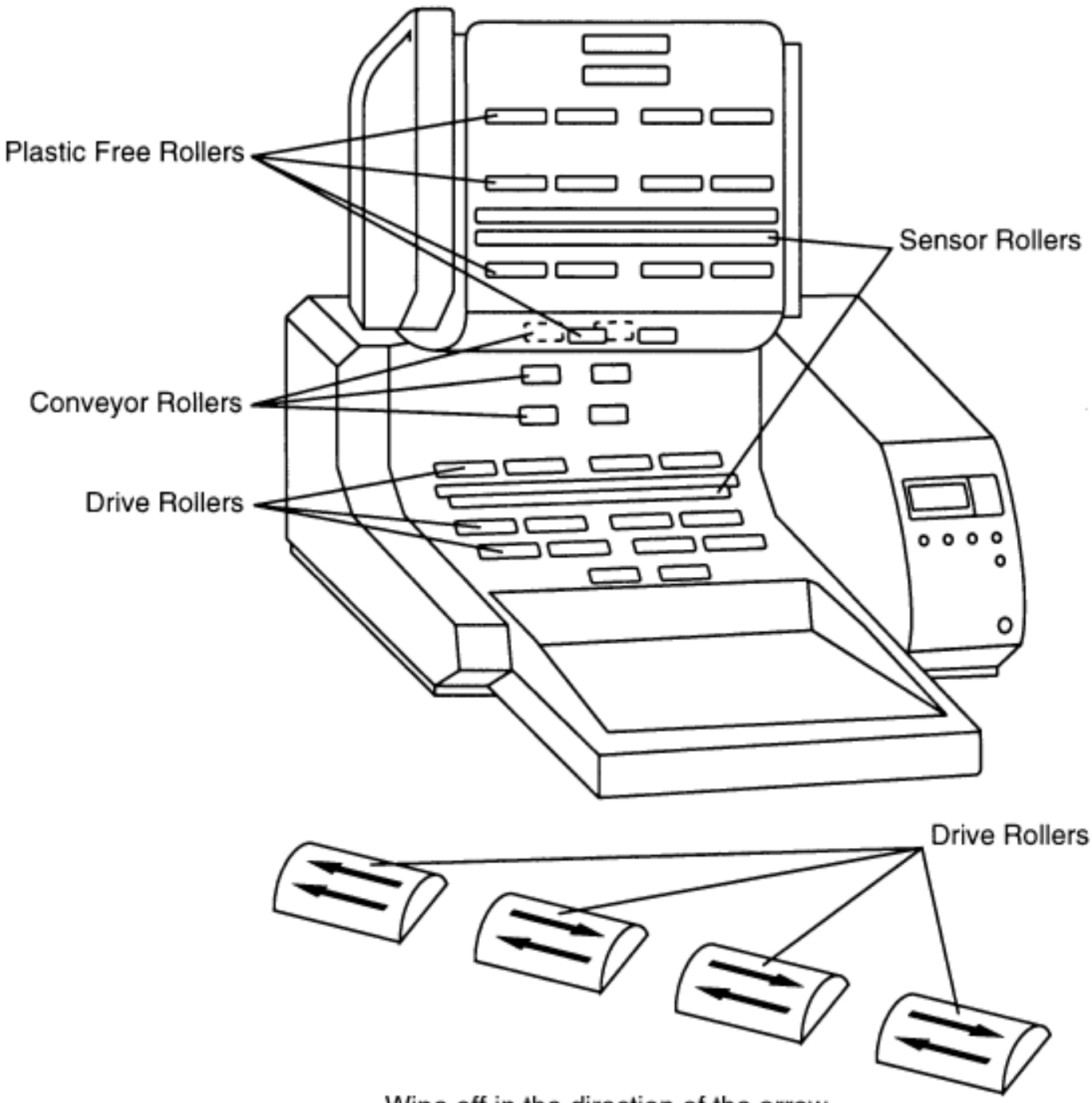


Fig.7-3

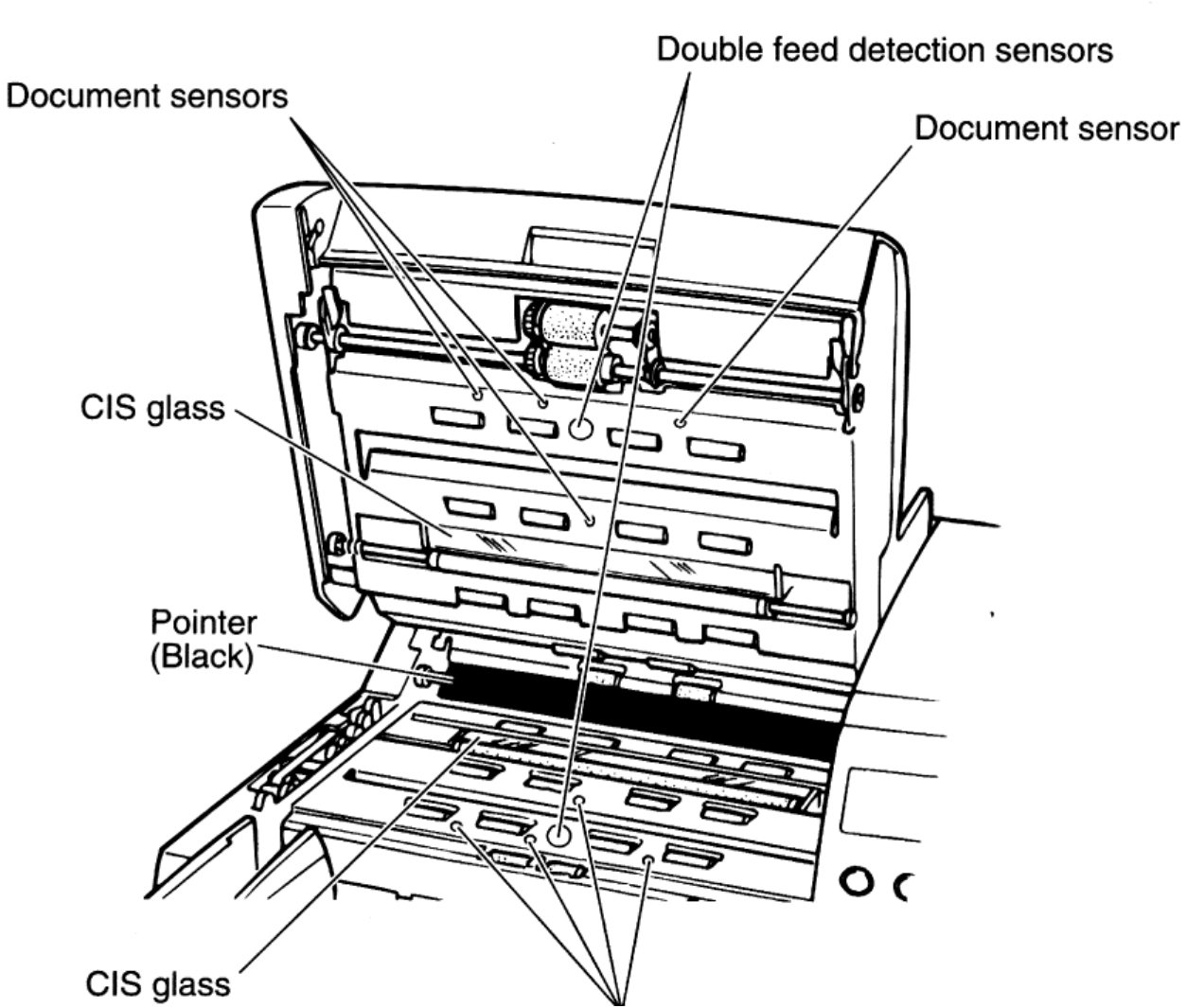
7.3 CIS Glass, Document Sensors and Double Feed Detection Sensors Cleaning

1. Open the Front door.
2. Clean the CIS glass using the accessory roller cleaning paper (KV-SS03). Also, remove the dirt on the document sensors and double feed detection sensors with the blower Scanner (KV-S2065L/W) has.

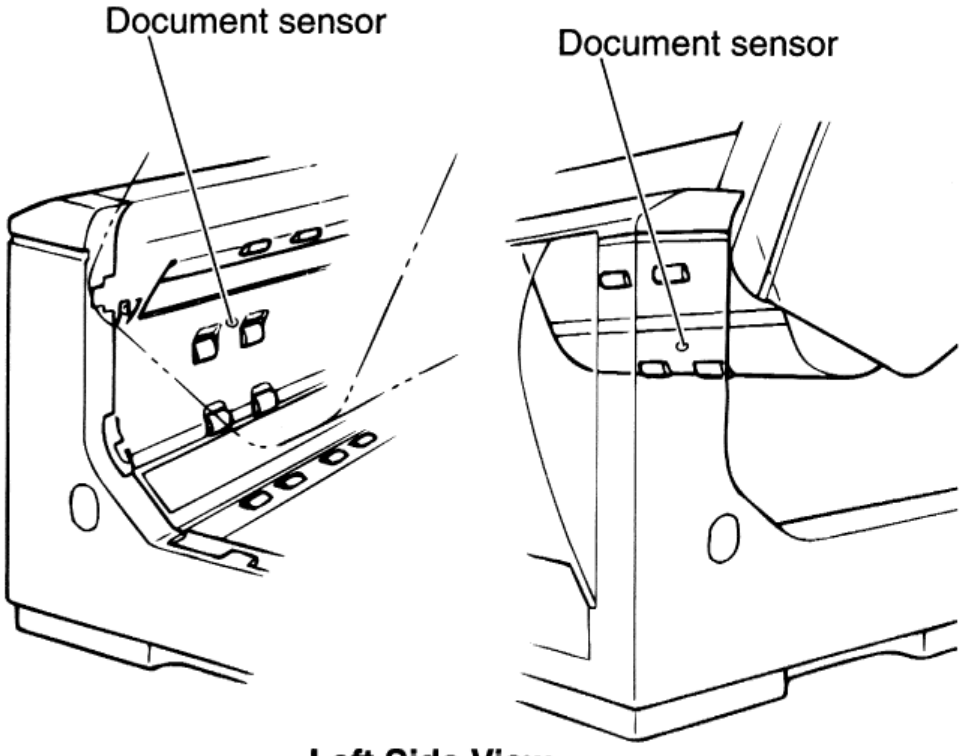
   Note:

   When cleaning the bottom CIS glass, do not touch the tip of the plastic pointer (black) in the back of the unit.

   If the paper path selector is set to the lower side, it may cause an injury.



Document sensors

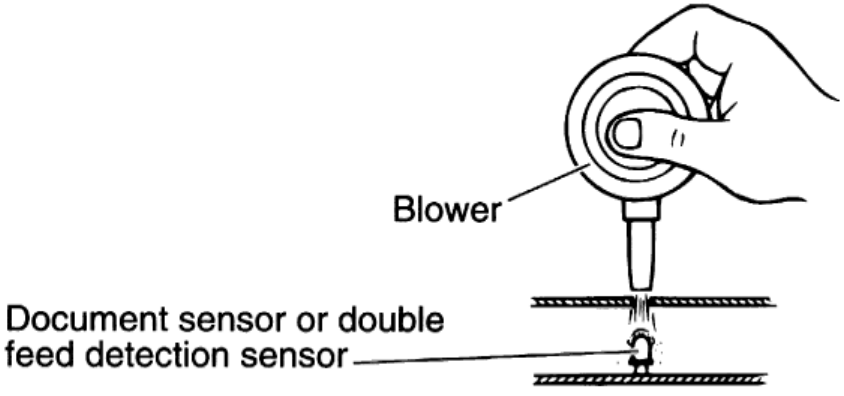


Left Side View

from the blower

How to clean the document sensor or double feed detection sensor

Remove the brush from the blower and blow off the dirt through the document sensor hole or double feed detection sensor hole.



TOP PREVIOUS NEXT

7.4 Sensor Roller Cleaning

1. Open the Front door.
2. Clean the Sensor Roller with cleaning paper (KV-SS03), as shown in Fig. 7-3.

   Note:

   If the Sensor Roller is removed while cleaning, re-attach it after cleaning as follows.

7.4.1 Re-attachment of the Sensor Roller Assembly

7.4.1 Re-attachment of the Sensor Roller Assembly

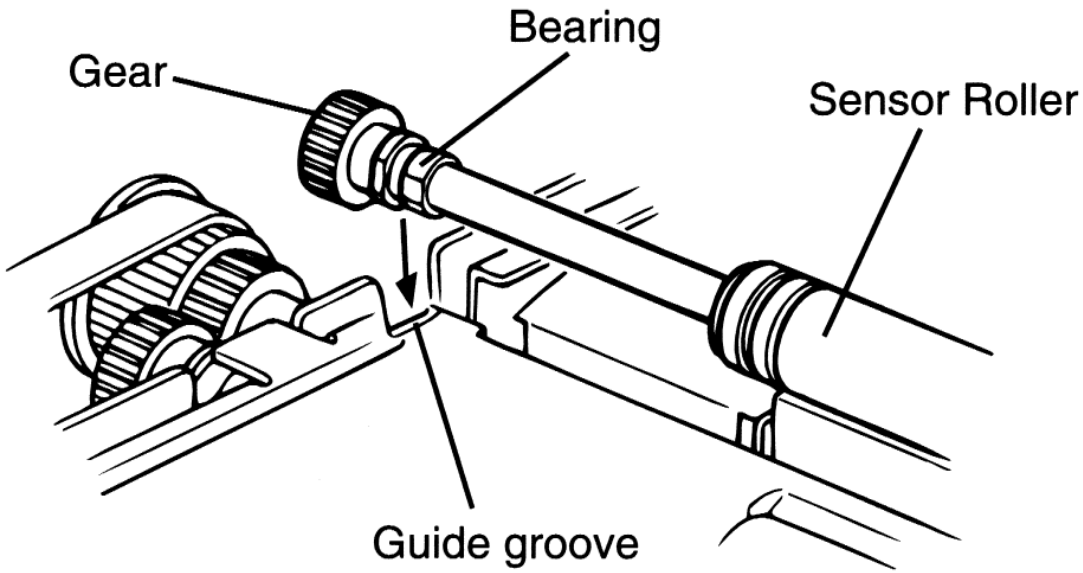
When the Sensor Roller is removed for cleaning the inside of the scanner, reattach it as shown below.

Lower Sensor Roller:

1. Attach the roller by placing the gear side to the left side of the scanner and inserting both side s bearings into the guide grooves.

   Note:

   After attaching, press down on top of the Sensor Roller with your finger to confirm if it moves or not.



Please attach the right side bearing in the same way.

Upper Sensor Roller:

1. Attach the roller by inserting the bearing of the gear side of the roller into the guide groove on the left side of the scanner.

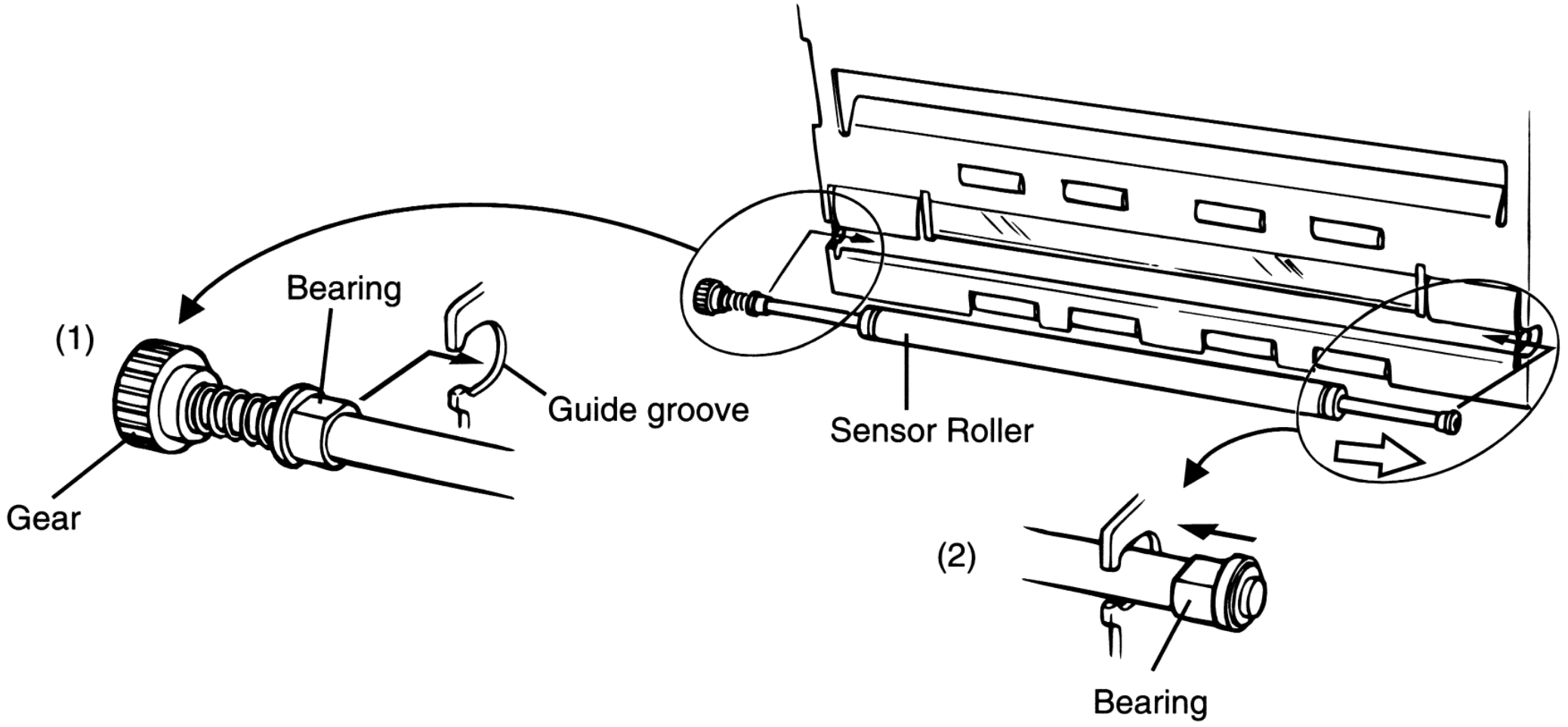
   Note:

   Match the flat side of the bearing with the flat side of the guide groove.

2. Hold the shaft on the right side of the Sensor Roller, push the tip of the gear, and slide the Sensor Roller in the direction of the arrow ⇨.
3. Attach the roller by inserting the bearing for the non-gears side of the roller into the guide groove on the right side of the scanner.

   Note:

   Match the flat side of the bearing with the flat side of the guide groove.


(1)
Bearing
Guide groove
Gear
Sensor Roller
(2)
Bearing

7.5 Replacing Limited Life Parts

If Warning Replace Roller message is displayed on the LCD, replace the Paper Feed Roller Module and Retard Roller Module at the same time.

1. Turn the power off and unplug the power cord.

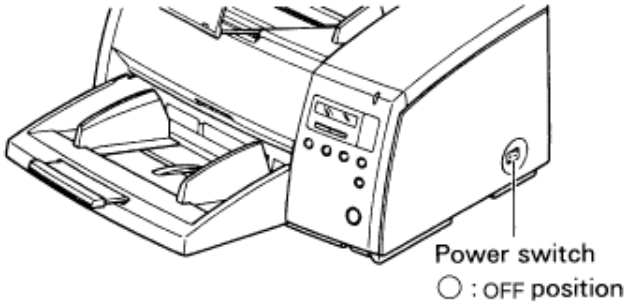


Fig. 7-4

2. Use your fingers to hold down the Front Door Release. Then open the Front Door completely.

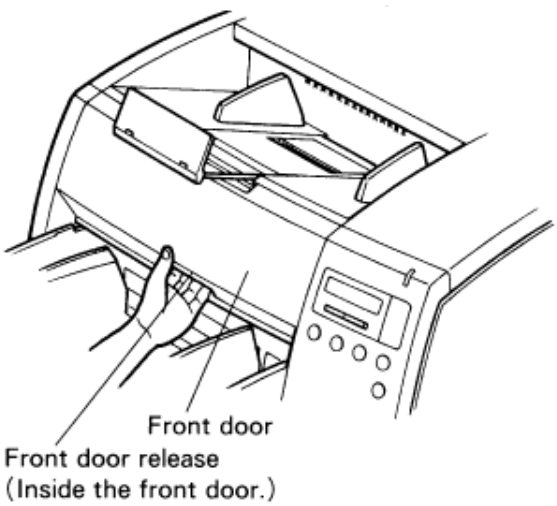


Fig. 7-5

3. Place your finger on the Paper Feed Roller Block Shaft and pull it towards you to remove the Paper Feed Roller Block from the magnet [(1)]. Push down the Green Lock Levers and remove the Paper Feed Roller Module from the scanner by holding theGreen Lock Levers [(2)].

   Note:

   The Paper Feed Roller Block is attached by magnetic power. When moving the Green Lock Lever, do not apply pressure in any other direction than the arrows. Otherwise, they may break.

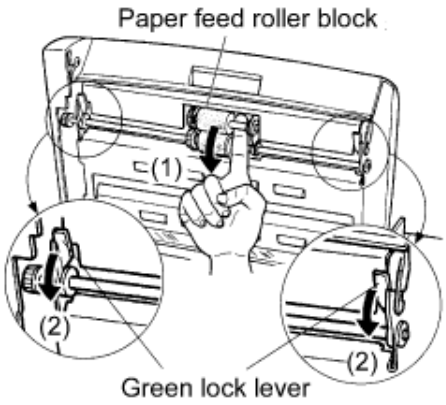


Fig. 7-6

4. Open the optional Roller Exchange Kit (KV-SS009) , and take out the Paper Feed Roller Module.

5. Install the new Paper Feed Roller Module with the gear on the left side and the bearings into the guide grooves of the side chassis in the scanner [(1)]. Then push up the levers on both ends until they click into place [(2)].

   Note:

   Match the Paper Feed Roller Module with the bearings and guide grooves, and then attach it.

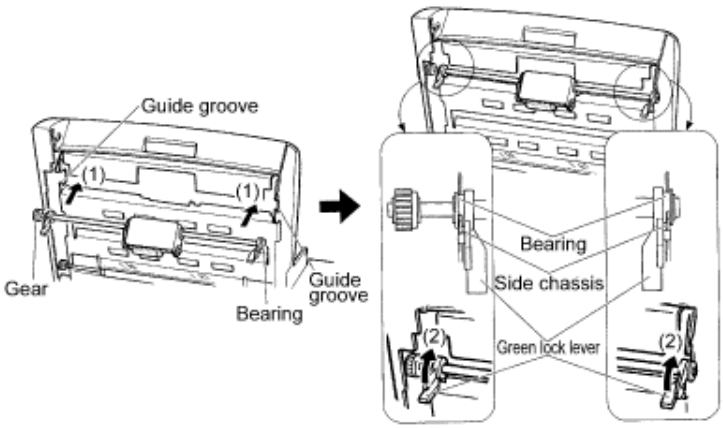


Fig. 7-7

6. Push up on the Paper Feed Roller Block and it will magnetically attach to the chassis.

   Note:

   When attaching the Paper Feed Roller Block to the chassis, do not damage the roller. You are now finished attaching the Paper Feed Roller Module. To continue, replace the Retard Roller Module according to the following procedure. (The Retard RollerModule is located in the conveyor).

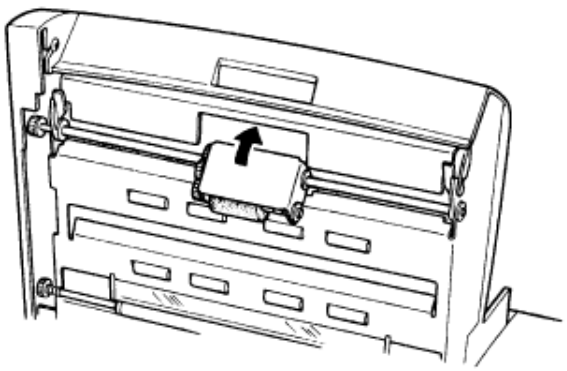


Fig. 7-8

7. Pull and open the Conveyor(Lower) towards you by using the indent on the right side.

   Note:

   When the Conveyor is pulled towards you, the rocking mechanism will be release. When opening the Conveyor, be careful not to get your finger stuck in the indent.

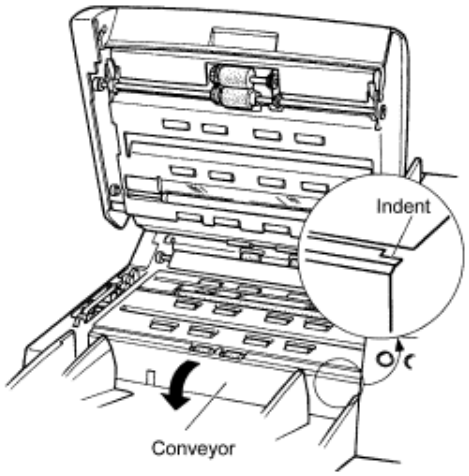


Fig. 7-9

8. Pull the right side of the shaft in the direction of the arrow and hold it there [(1)]. Pull the Retard Roller Module in the direction of the arrow [(2)] and then remove it.

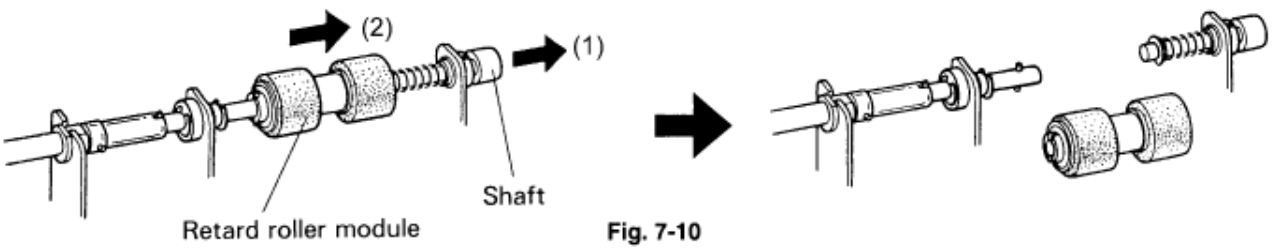


Fig. 7-10

9. Take out the Retard Roller Module in the optional Roller Exchange Kit (KV-SS009) .

10. Pull the right side of the shaft in the direction of the arrow and hold it there [(1)]. Attach the new Retard Roller Module as shown in the diagram below [(2)] and then return the right side of the shaft in the direction of the arrow [(3)].

    Note:

    Confirm if pin A and pin B are inserted in their notches correctly. Attach the Retard Roller Module so that the notch A is on the left side.

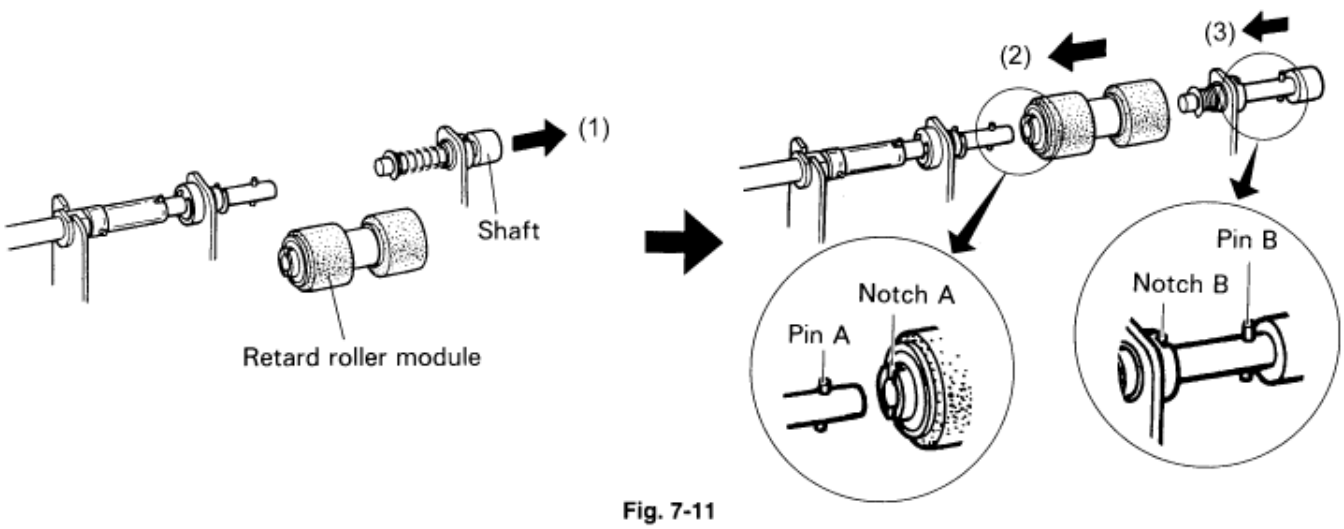


Fig. 7-11

11. Hold the Conveyor(Lower) using both hands, and close the Conveyor by pushing it into the unit.

Note:

When the conveyor is closed, the click-stop mechanism will operate. If the Conveyor is not closed correctly and operation in step 12 as is done, the Conveyor may break.

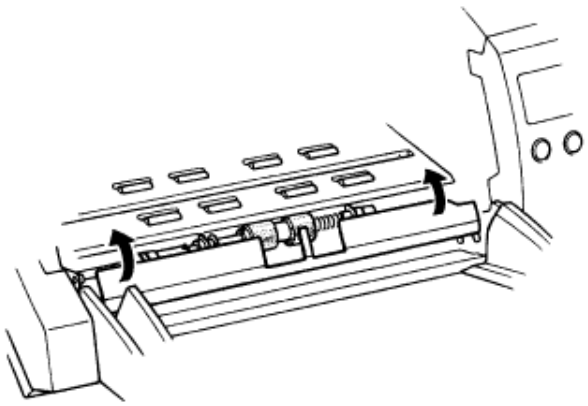


Fig. 7-12

12. Close the Front Door.

Note 1:

Push both sides of the Front Door down slowly until it clicks into place.

Note 2:

After replacing rollers, clear Replace Roller Warning on Other Setting Mode as shown in Section 9.

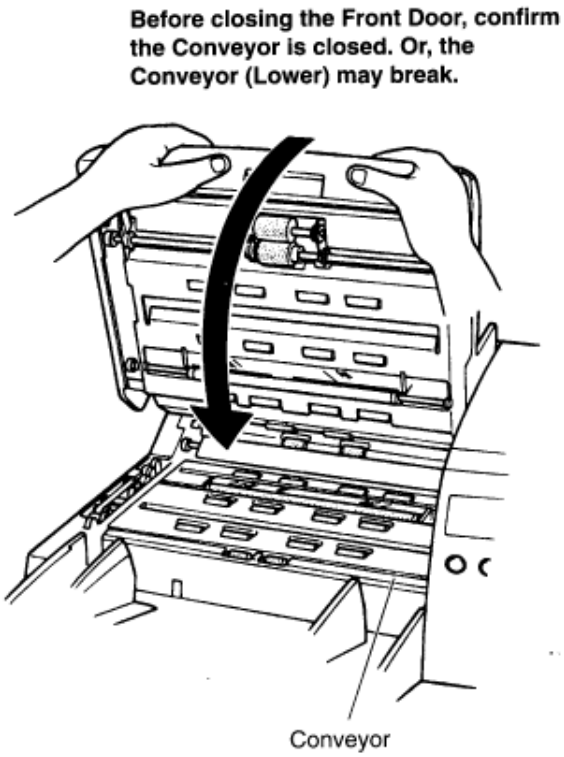


Fig. 7-13

8 DISASSEMBLY INSTRUCTIONS

TOP PREVIOUS NEXT

8.1 Disassembly Flowchart

8.2 Exterior

8.2.1 Rear Panel (with Post Imprinter Door)

8.2.2 Side Cover (R)

8.2.3 Switch Panel

8.2.4 Side Panel (R)

8.2.5 Exit Cover

8.2.6 Pre Imprinter Door

8.2.7 Side Panel (L)

8.2.8 Feed Unit Cover (L)

8.2.9 Feed Unit Cover

8.2.10 Hopper Unit

8.3 Unit Components

8.3.1 CIS (Contact type Image Sensor) Front

8.3.2 CIS (Contact type Image Sensor) Back

8.3.3 Conveyor Roller (1) - (3)

8.3.4 Driver Roller (1) - (3)

8.3.5 Retard Roller

8.3.6 Paper Feed Roller

8.3.7 Exit Roller

8.3.8 Straight Exit Roller

8.3.9 Drive Belt

8.3.10 Conveyor Motor

8.3.11 Feed Motor

8.3.12 Turn Conveyor Plate (Inner)

8.3.13 Straight Exit Conveyor Plate

8.3.14 Board Box Cover

8.3.15 SCSI Board

8.3.16 Board Box Unit

8.3.17 Front Door Switch

8.3.18 Gas Spring

8.3.19 Pointer

8.4 Circuit Board Assemblies

8.4.1 MAIN CONTROL Board

8.4.2 POWER Board

8.4.3 MOTHER Board

8.4.4 DRIVE Board

8.4.5 POST IMPRINTER DOOR Board

8.4.6 PANEL Board

8.4.7 DC-DC CONVERTER Board

8.4.8 ENDING (FRONT) POSITION SENSOR Board

8.4.9 RELAY (UPPER) Board

8.4.10 WAITING SENSOR Board

8.4.11 STARTING POSITION SENSOR Board

8.4.12 WAITING LED Board

8.4.13 STARTING POSITION LED Board

8.4.14 RELAY (LOWER) Board

8.4.15 PAPER JAM SENSOR Board

8.4.16 ENDING (FRONT) POSITION LED Board

8.4.17 SIZE DETECTOR Board and Paper Detector

8.4.18 HOPPER POSITION Board

8.4.19 PAPER JAM LED Board

8.4.20 ENDING (REAR) POSITION SENSOR Board

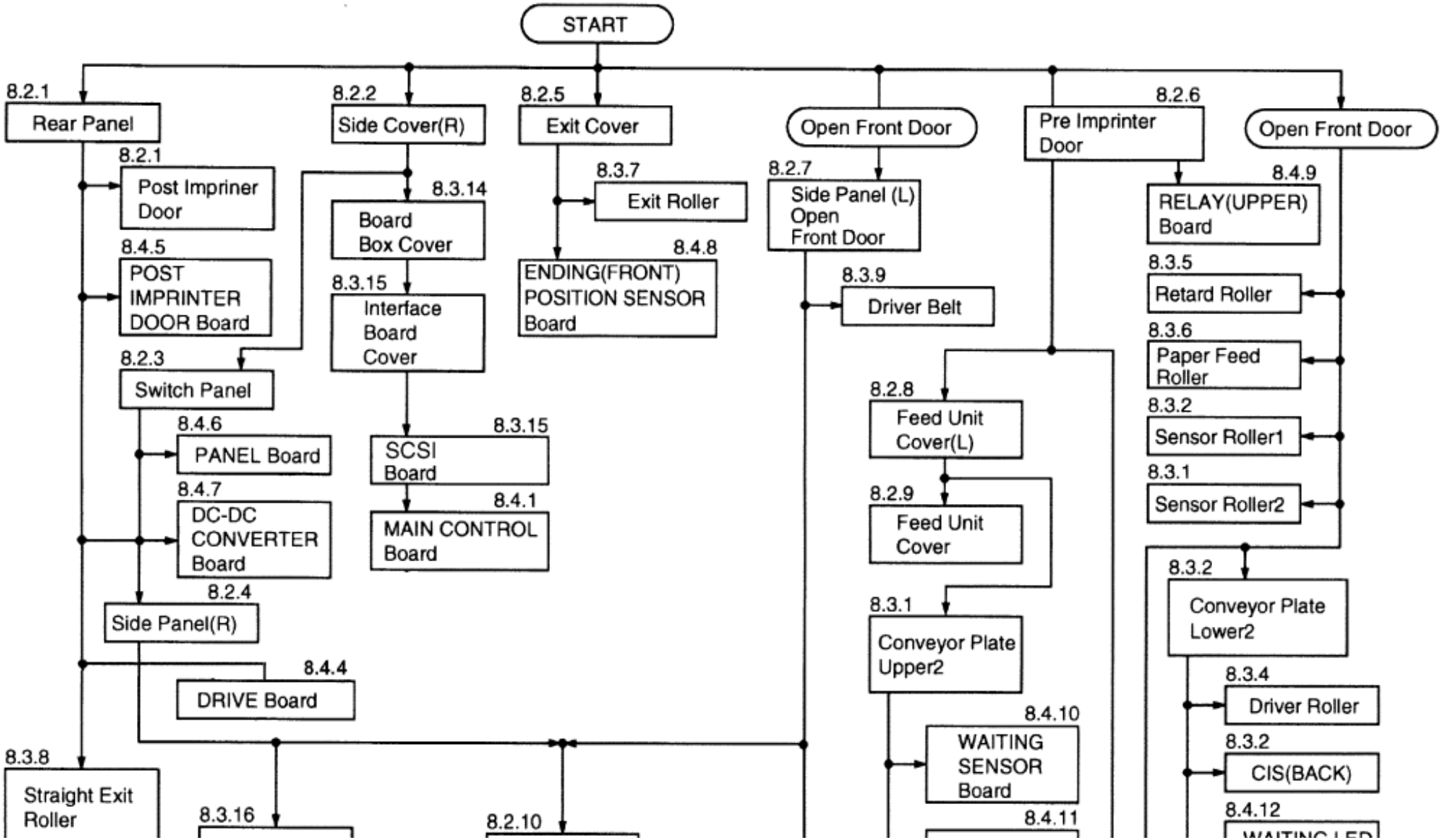
8.4.21 POINTER DETECTOR Board

8.4.22 Power Switch

8.4.23 Fan

8.1 Disassembly Flowchart

When reassembling, perform the steps in the reverse order unless otherwise noted in Reassembling Notes.



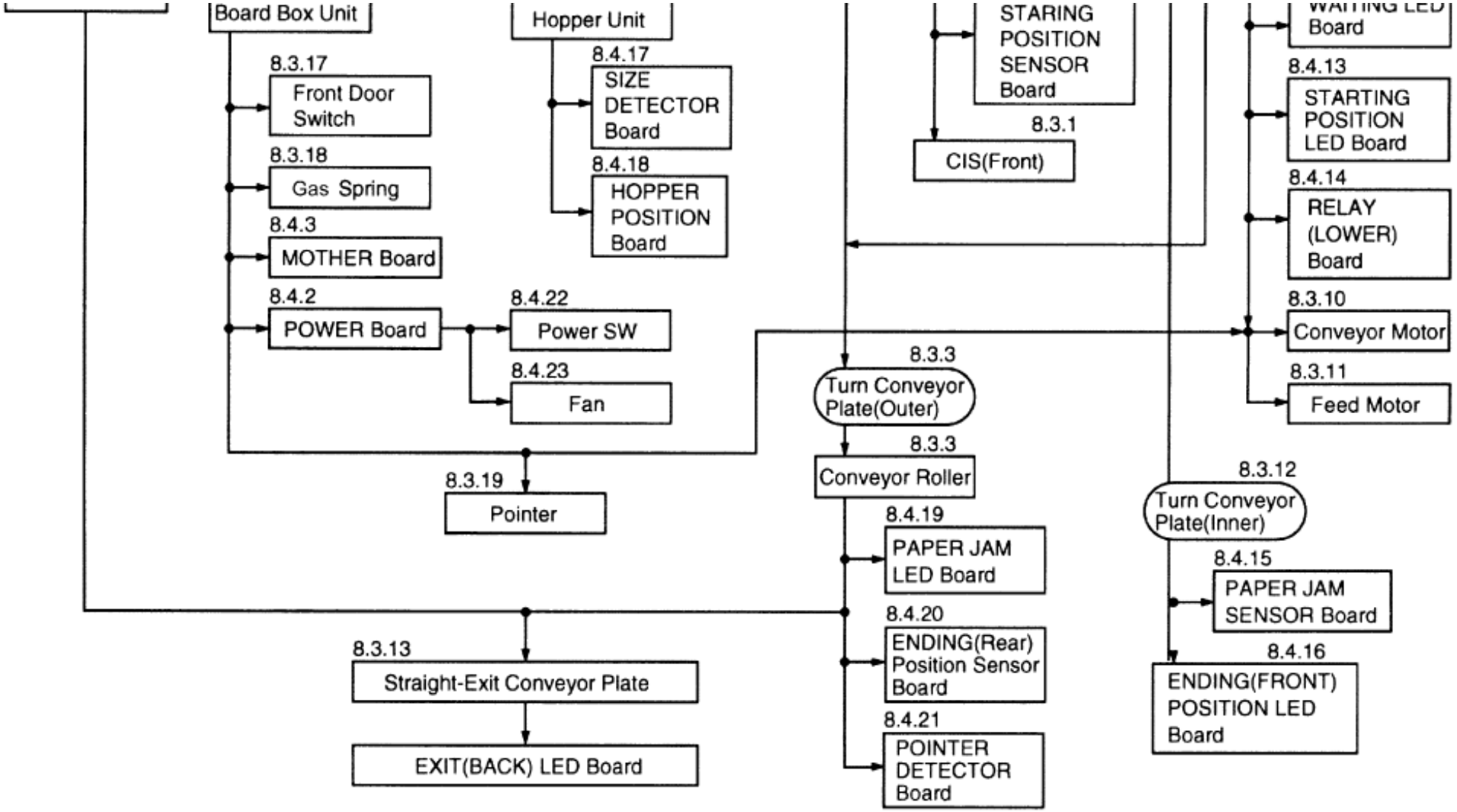

Board Box Unit
Hopper Unit
8.3.17
Front Door Switch
8.3.18
Gas Spring
8.4.3
MOTHER Board
8.4.2
POWER Board
8.4.17
SIZE DETECTOR Board
8.4.18
HOPPER POSITION Board
8.4.22
Power SW
8.4.23
Fan
8.3.19
Pointer
STARING POSITION SENSOR Board
8.3.1
CIS(Front)
8.3.3
Turn Conveyor Plate(Outer)
8.3.3
Conveyor Roller
8.4.19
PAPER JAM LED Board
8.4.20
ENDING(Rear) Position Sensor Board
8.4.21
POINTER DETECTOR Board
8.3.13
Straight-Exit Conveyor Plate
EXIT(BACK) LED Board
Board
8.4.13
STARTING POSITION LED Board
8.4.14
RELAY (LOWER) Board
8.3.10
Conveyor Motor
8.3.11
Feed Motor
8.3.12
Turn Conveyor Plate(Inner)
8.4.15
PAPER JAM SENSOR Board
8.4.16
ENDING(FRONT) POSITION LED Board

Fig. 8-1

8.2 Exterior

TOP PREVIOUS NEXT

8.2.1 Rear Panel (with Post Imprinter Door)

8.2.2 Side Cover (R)

8.2.3 Switch Panel

8.2.4 Side Panel (R)

8.2.5 Exit Cover

8.2.6 Pre Imprinter Door

8.2.7 Side Panel (L)

8.2.8 Feed Unit Cover (L)

8.2.9 Feed Unit Cover

8.2.10 Hopper Unit

TOP PREVIOUS NEXT

8.2.1 Rear Panel (with Post Imprinter Door)

1. Remove 6 screws.

2. Remove cable from CN530 of POST IMPRINTER DOOR Board.

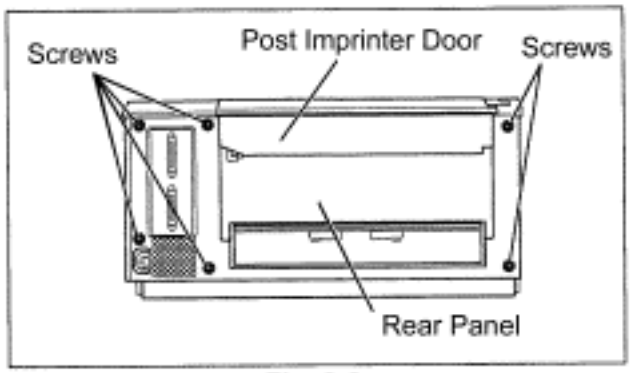


Fig. 8-2

8.2.2 Side Cover (R)

1. Remove 2 screws and the Side Cover (R).

2. Remove Side Cover (R) pushing down for arrow direction.

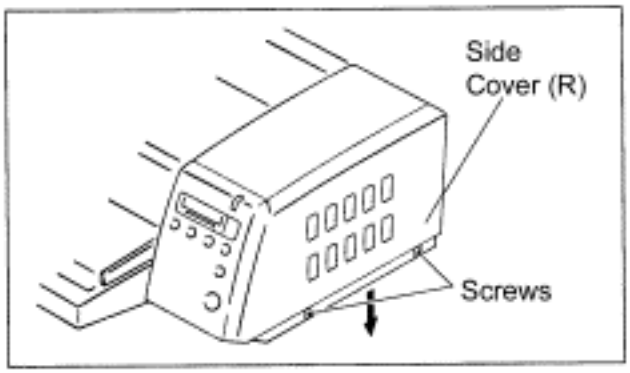


Fig. 8-3

8.2.3 Switch Panel

1. Remove 3 screws and the Switch Panel after opening Front Door.

2. Remove cable from CN551 of PANEL Board.

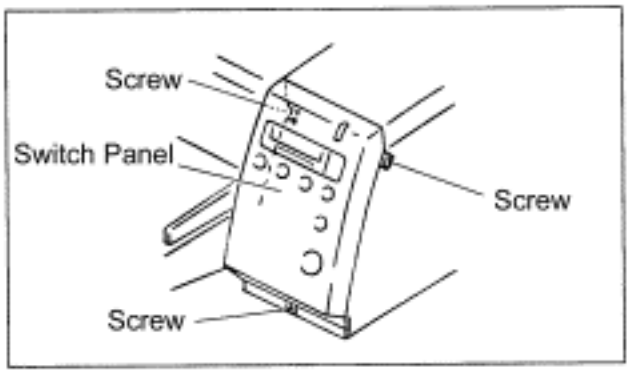


Fig. 8-4

8.2.4 Side Panel (R)

TOP PREVIOUS NEXT

1. Remove the Rear Panel. (See 8.2.1)
2. Remove the Side Cover (R). (See 8.2.2)
3. Remove the Switch Panel. (See 8.2.3)
4. Remove the Rear Panel. (See 8.2.1)
5. Remove 4 screws and the Side Panel (R).

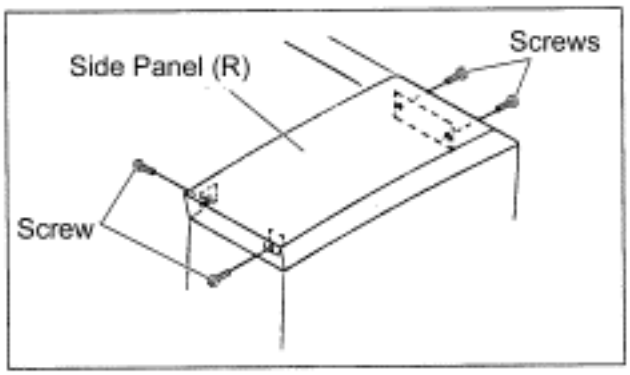


Fig. 8-5

TOP PREVIOUS NEXT

8.2.5 Exit Cover

1. Remove the Rear Panel. (See 8.2.1)

2. Remove 2 screws.

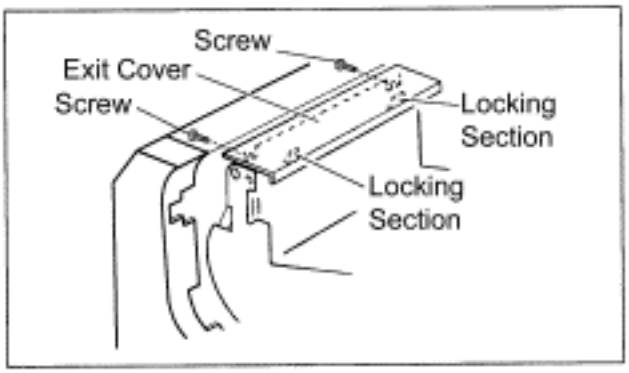


Fig. 8-6

8.2.6 Pre Imprinter Door

1. Remove the Exit Cover. (See 8.2.5)

2. Push the Stacker as shown in the Fig. 8-7.

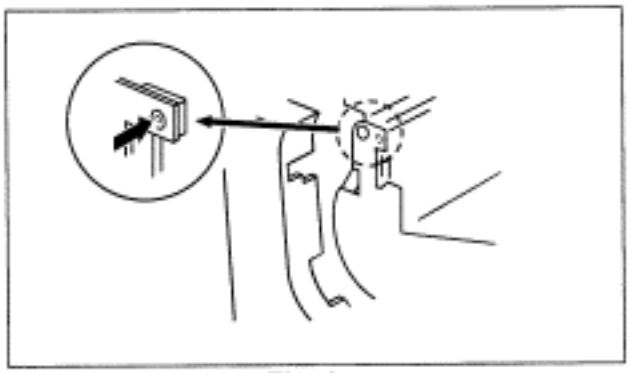


Fig. 8-7

8.2.7 Side Panel (L)

TOP PREVIOUS NEXT

1. Open Front Door.

2. Remove 2 screws and the Side Panel (L). /(Pull out while pushing down the 3 locking sections from the chassis)

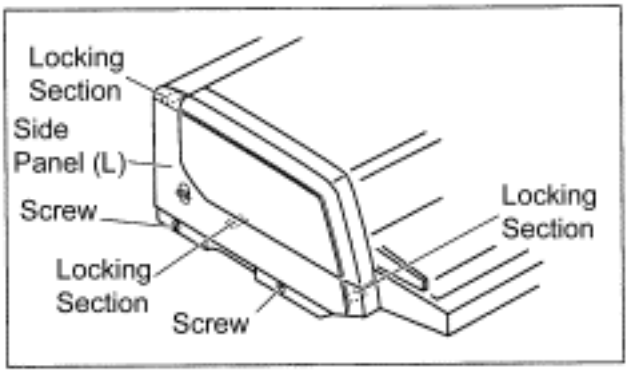


Fig. 8-8

TOP PREVIOUS NEXT

8.2.8 Feed Unit Cover (L)

1. Remove 2 screws after removing Pre Imprinter Door.

2. Remove the Feed Unit Cover (L). /(Pull out while pushing down the locking section)

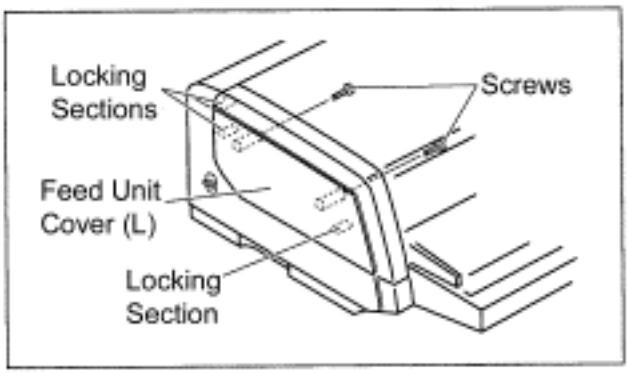


Fig. 8-9

8.2.9 Feed Unit Cover

1. Remove the Feed Unit Cover (L). (See 8.2.8)

2. Loosen 4 screws and the Feed Unit Cover.

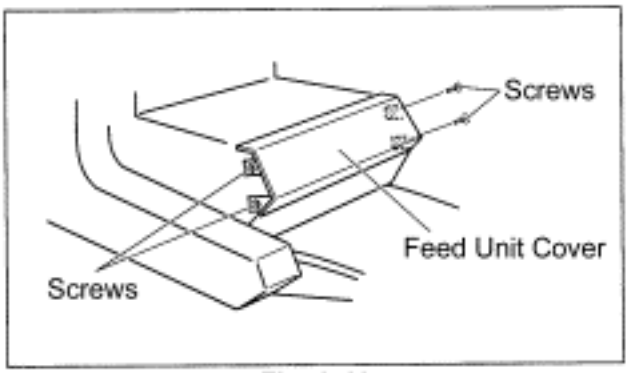


Fig. 8-10

8.2.10 Hopper Unit

1. Remove the Switch Panel and the Side /Panel (L). (See 8.2.3 and 8.2.7)
2. Remove 4 screws (A).
3. Remove 2 screws (B).
4. Disconnect connector CN512.

   Note:

   When assembling, cable connected to CN512 should be inserted, while white base side of the cable (without character) is located to the upper.

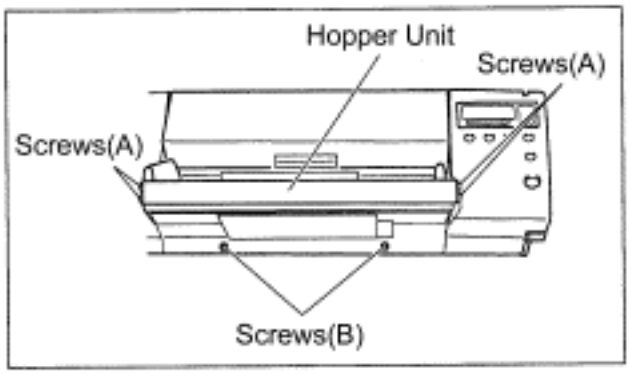


Fig. 8-11

8.3 Unit Components

TOP PREVIOUS NEXT

8.3.1 CIS (Contact type Image Sensor) Front

8.3.2 CIS (Contact type Image Sensor) Back

8.3.3 Conveyor Roller (1) - (3)

8.3.4 Driver Roller (1) - (3)

8.3.5 Retard Roller

8.3.6 Paper Feed Roller

8.3.7 Exit Roller

8.3.8 Straight Exit Roller

8.3.9 Drive Belt

8.3.10 Conveyor Motor

8.3.11 Feed Motor

8.3.12 Turn Conveyor Plate (Inner)

8.3.13 Straight Exit Conveyor Plate

8.3.14 Board Box Cover

8.3.15 SCSI Board

8.3.16 Board Box Unit

8.3.17 Front Door Switch

8.3.18 Gas Spring

8.3.19 Pointer

8.3.1 CIS (Contact type Image Sensor) /Front/

1. Remove Feed Unit Cover (L). (See 8.2.8)
2. Slide the Sensor Roller 2 to the right and remove the Sensor Roller.
3. Remove 2 screws and remove the Conveyor Plate Upper 2.
4. Remove 4 screws on the both sides of the CIS.
5. Disconnect all connectors.
6. Remove the CIS Front.
7. Remove 4 screws on the both sides of CIS Plate.

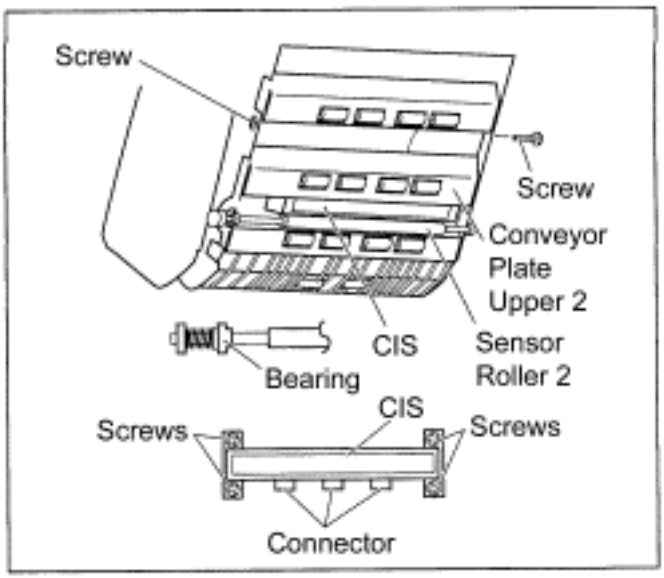


Fig. 8-12

8.3.2 CIS (Contact type Image Sensor) /Back

1. Remove Sensor Roller 1.
2. Remove screw and Conveyor Plate Lower 2.
3. Remove Drive Roller 3.
4. Remove 4 hexagonal bolts.
5. Disconnect all connectors.
6. Remove the CIS Back.
7. Remove 4 screws on the both sides of CIS Plate.

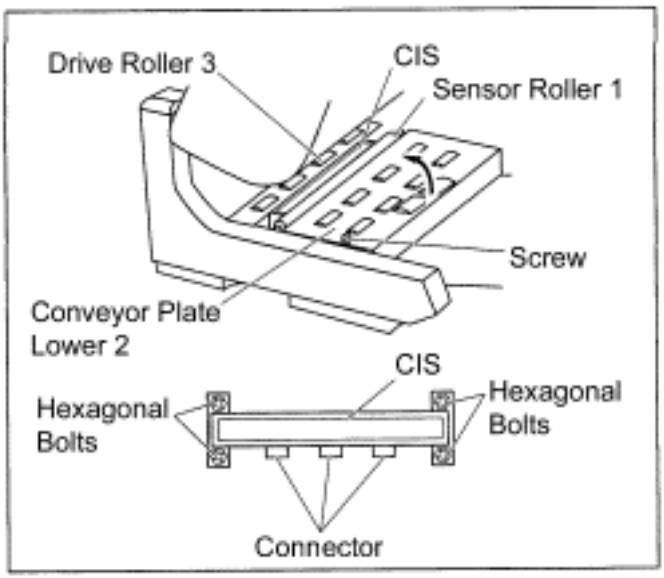


Fig. 8-13

8.3.3 Conveyor Roller (1) - (3)

TOP PREVIOUS NEXT

1. Remove the Side Panel (L). (See 8.2.7)
2. Open the Front Door.
3. Remove 4 screws and Turn Conveyor Plate(outer).
4. Remove E-Rings from both sides of roller, and /remove bearing and gear.

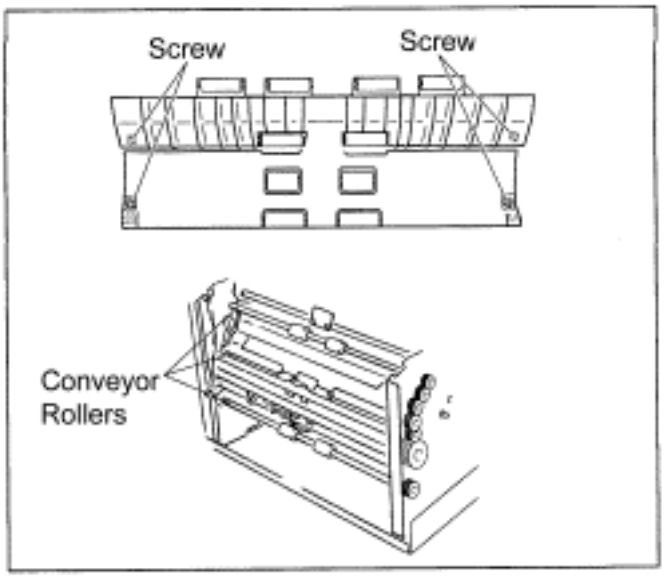


Fig. 8-14

TOP PREVIOUS NEXT

8.3.4 Driver Roller (1) - (3)

1. Open the Front Door.
2. Remove Conveyor Plate Lower 2. (See 8.3.2-(2))
3. Unlock the rollers from the notching hole of chassis and remove them.
4. Remove E-Rings from both sides of roller, and remove bearing and gear.

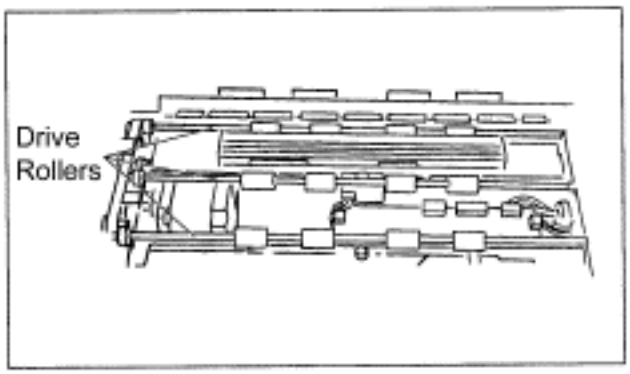


Fig. 8-15

8.3.5 Retard Roller

TOP PREVIOUS NEXT

1. Open the Front Door and remove Lower Conveyor Plate 1.

2. Remove the Retard Roller, as shown in Fig. 8-16.

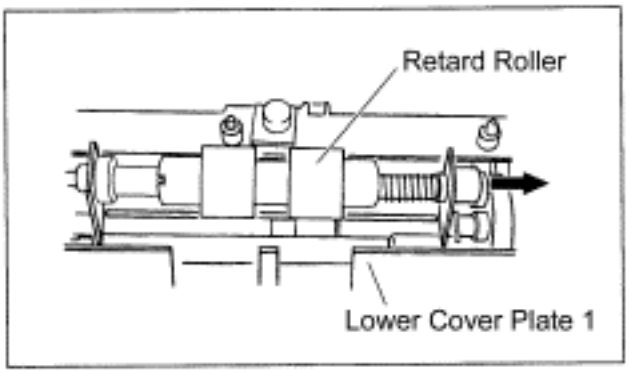


Fig. 8-16

TOP PREVIOUS NEXT

8.3.6 Paper Feed Roller

1. Open the Front Door.
2. Pull the Feeder Roller Block from Magnet.
3. Pull the lock levers for the Paper Feeder Roller Module, as shown in Fig. 8-17.

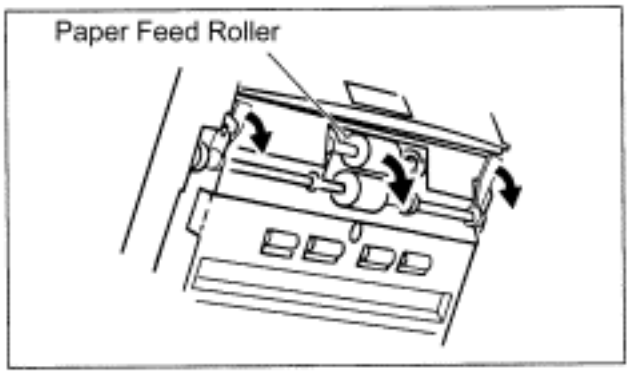


Fig. 8-17

8.3.7 Exit Roller

1. Remove Exit Cover. (See 8.2.5)
2. Remove Feed Unit Cover (L). (See 8.2.8)
3. Remove Exit Roller.
4. Remove E-Rings from both sides of roller, and remove bearing and gear.

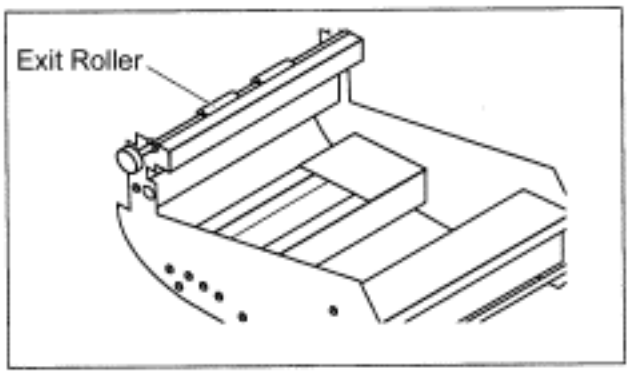


Fig. 8-18

8.3.8 Straight Exit Roller

1. Remove the Rear Panel and the Straight Exit Roller.

2. Remove E-Rings from both sides of roller, and remove bearing and gear.

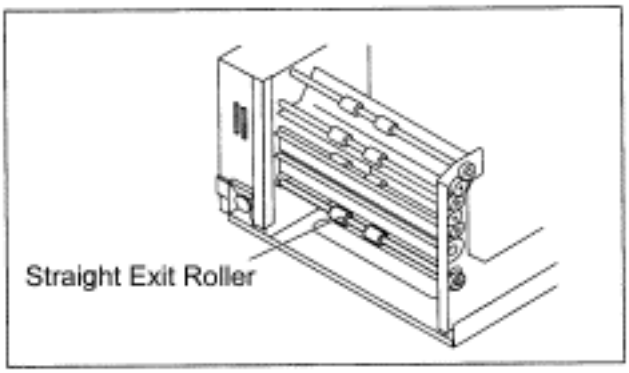


Fig. 8-19

8.3.9 Drive Belt

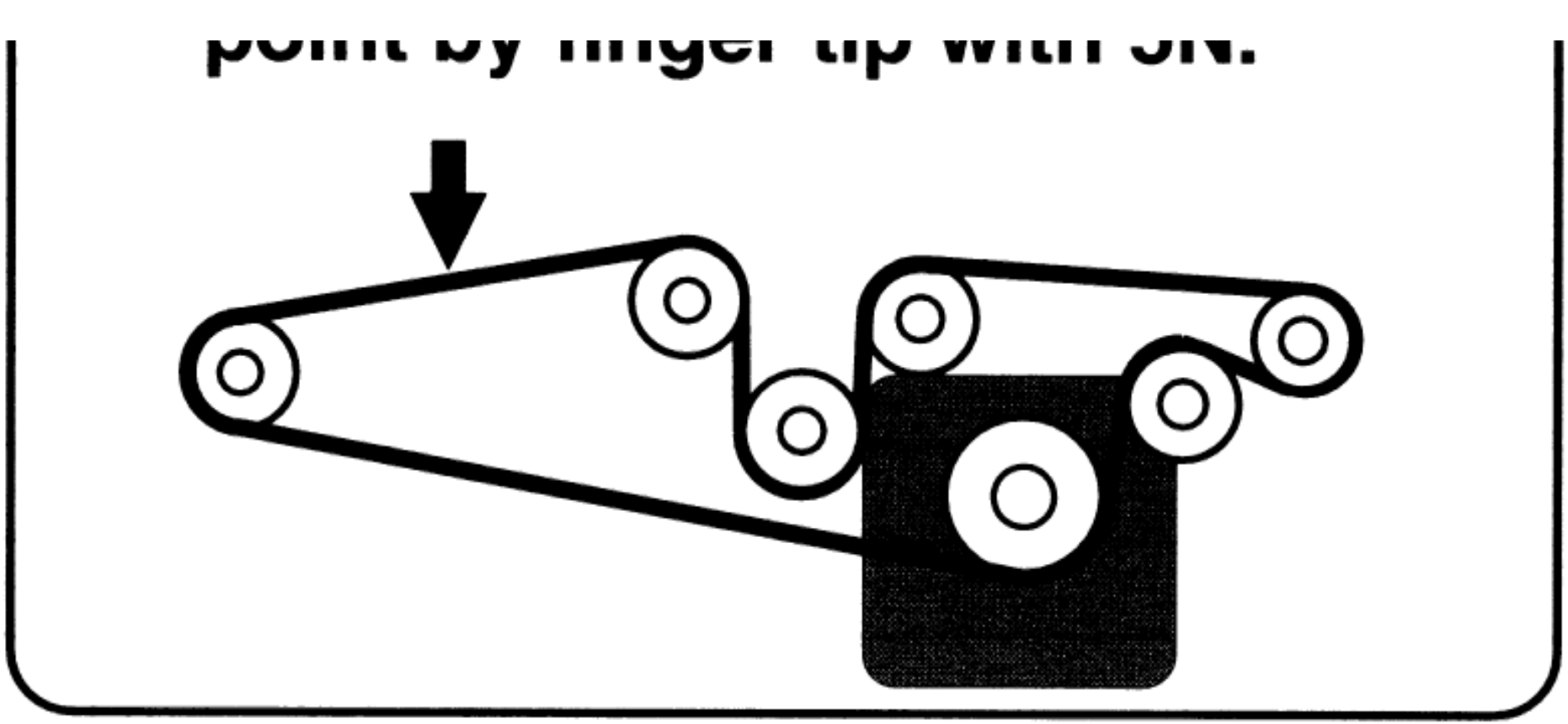
1. Remove Side Panel(L). (See 8.2.7)
2. Loosen 2 screws and release the Tension Pulley.
3. Remove the Drive Belt.

   Note:

   When the Belt is installed, the tension spring will automatically apply tension to the belt.

   (RE-ASSEMBLE NOTE)

BELT LAYOUT
Tension of the belt:
Adjust the belt tension
having about 5mm bent
by pressing the arrow
point by finger tip with 5N



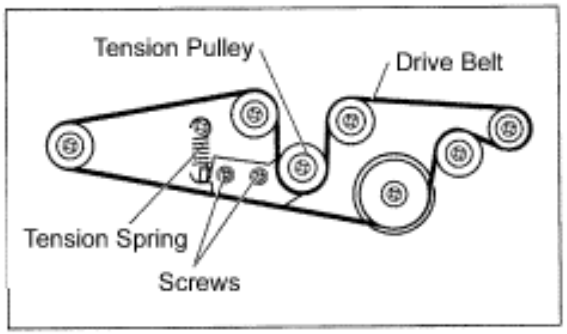


Fig. 8-20

8.3.10 Conveyor Motor

1. Remove Drive Roller-2. (See 8.3.4-(1), (2), (3))
2. Loosen 2 screws and release the tension pulley.
3. Remove the 2 screws.
4. Remove the Conveyor Motor with Motor Mount.
5. Disconnect the connector from the Conveyor Motor.

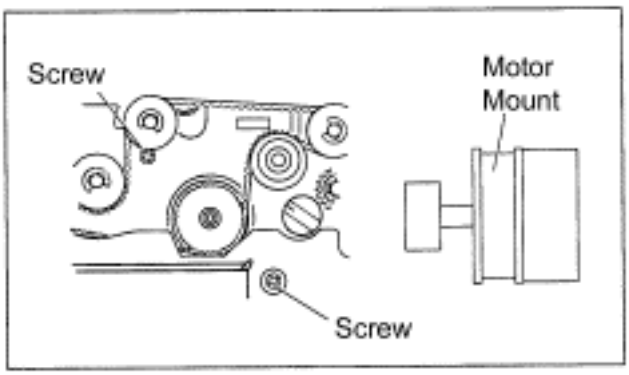


Fig. 8-21

8.3.11 Feed Motor

1. Remove Drive Roller-1. (See 8.3.4-(1), (2), (3))
2. Remove the screw (A) from the Retard Transmission Shaft Holder.

   Note:

   When reattach a rink spacer to the scanner, be careful with the direction of the spacer.

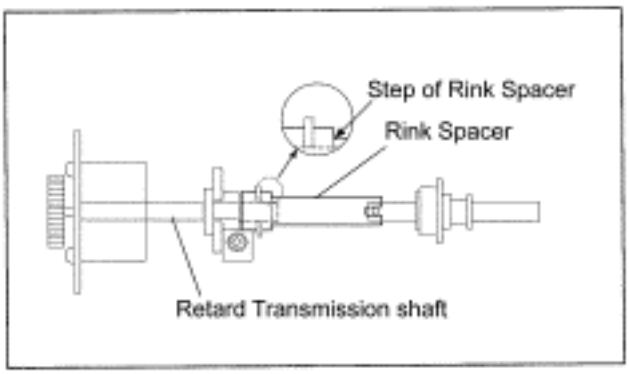


Fig. 8-22-A

1. Remove 3 screws (B).
2. Remove the Feed Motor with the Attachment Plate screws.
3. Disconnect the connector from the DRIVE Board to this motor.

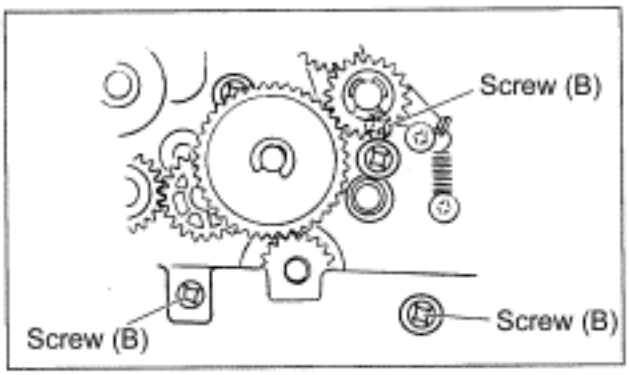


Fig. 8-22-B

8.3.12 Turn Conveyor Plate (Inner)

1. Remove the Pre Imprinter Door. (See 8.2.6)
2. Remove 4 screws.

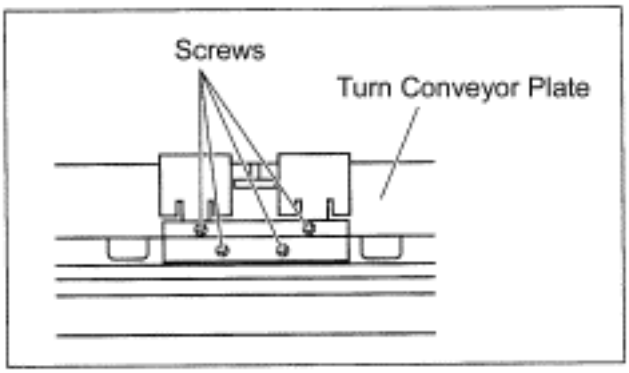


Fig. 8-23-A

1. Remove the 4 claws.
2. Disconnect CN526.

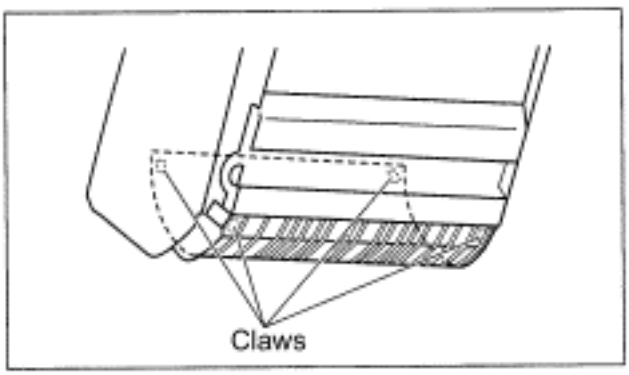


Fig. 8-23-B

8.3.13 Straight Exit Conveyor Plate

TOP PREVIOUS NEXT

1. Remove Rear Panel. (See 8.2.1)
2. Remove Straight Exit Roller. (See 8.3.8)
3. Remove 3 screws.
4. Remove the Straight Exit Conveyor Plate.

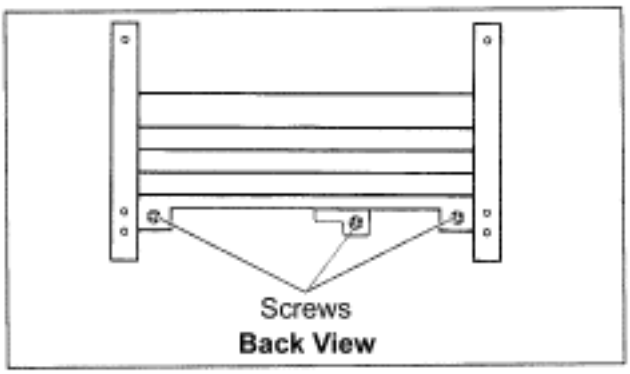


Fig. 8-24

TOP PREVIOUS NEXT

8.3.14 Board Box Cover

1. Remove Side Cover (R). (See 8.2.2)

2. Remove 5 screws and the Board Box Cover.

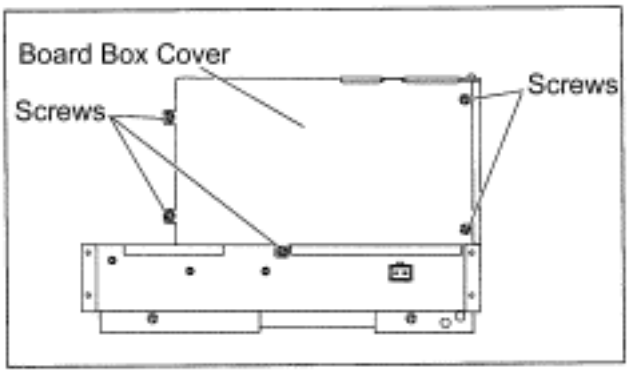


Fig. 8-25

8.3.15 SCSI Board

1. Remove 2 screws and the Interface Board Cover.

2. Pull out SCSI Board, holding the handle.

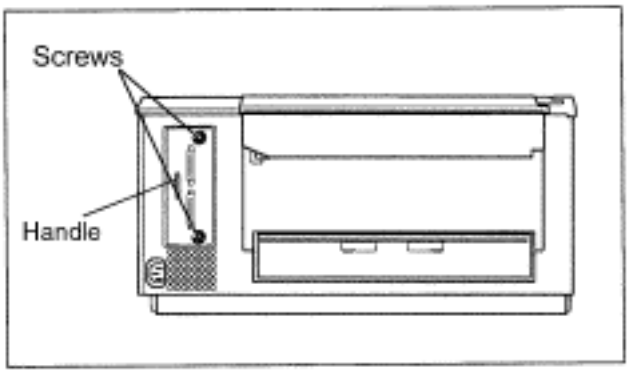


Fig. 8-26

8.3.16 Board Box Unit

1. Remove Rear Panel, Side Cover (R), Switch Panel, and Side Panel (R). (See 8.2.1 to 8.2.4)

2. Remove 8 screws and wire harness.

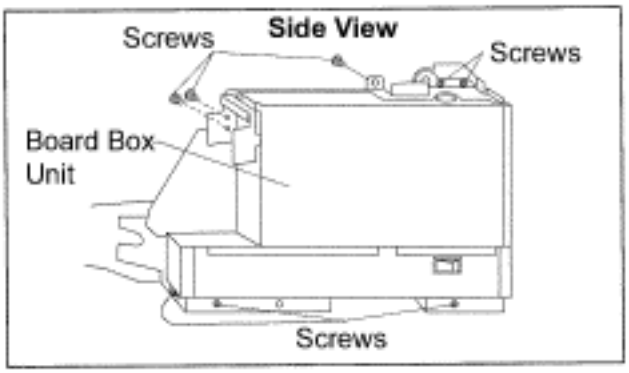


Fig. 8-27-A

1. Remove 2 screws (Back View).

2. Remove the Board Box Unit.

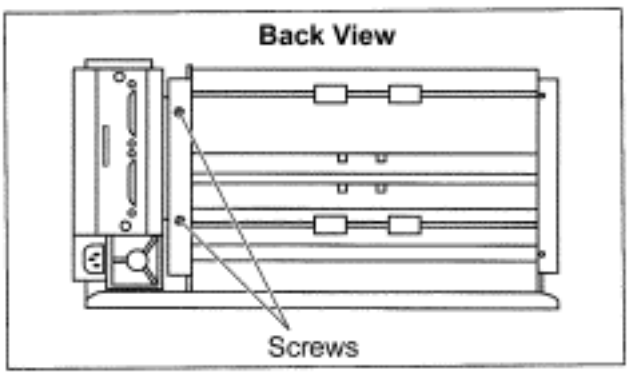


Fig. 8-27-B

8.3.17 Front Door Switch

1. Remove Board Box Unit. (See 8.3.16)
2. Remove 2 screws.
3. Disconnect 2 lead wires.
4. Remove the front Door Switch.

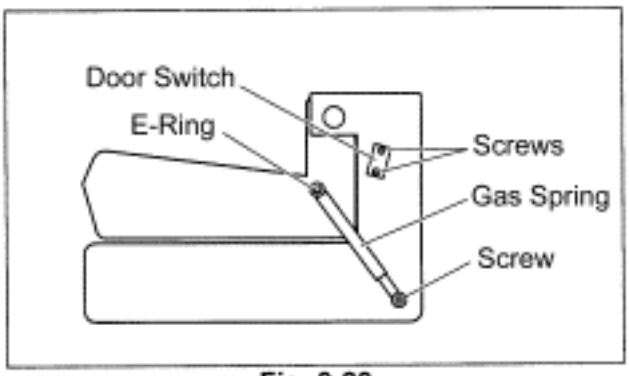


Fig. 8-28

8.3.18 Gas Spring

1. Remove Board Box Unit. (See 8.3.16)
2. Remove the screw(a).
3. Remove the screw(b).
4. Remove the Gas Spring.

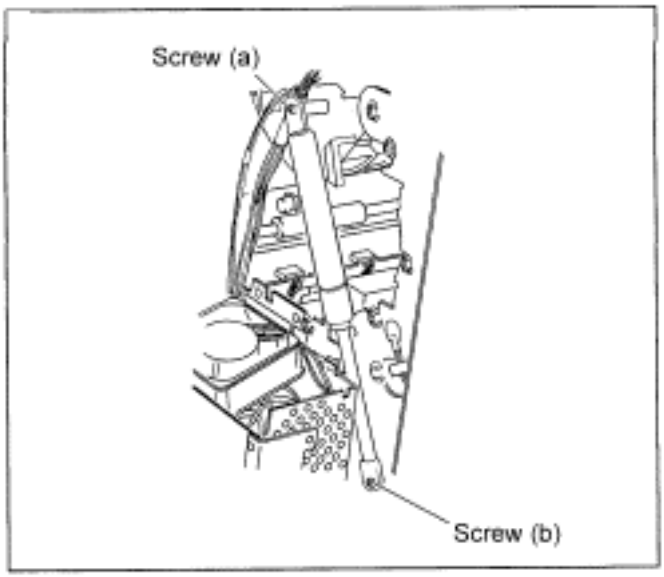


Fig. 8-29

8.3.19 Pointer

1. Remove Board Box Unit. (See 8.3.16)
2. Remove the right side E-Ring.
3. Remove the left side Paper Path Selector and E-Ring.
4. Remove the Pointer.

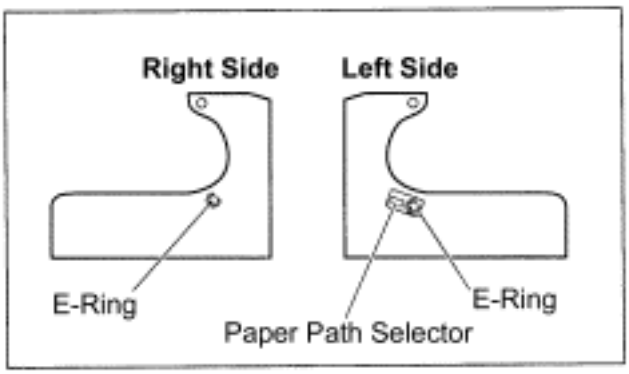


Fig. 8-30

8.4 Circuit Board Assemblies

TOP PREVIOUS NEXT

8.4.1 MAIN CONTROL Board

8.4.2 POWER Board

8.4.3 MOTHER Board

8.4.4 DRIVE Board

8.4.5 POST IMPRINTER DOOR Board

8.4.6 PANEL Board

8.4.7 DC-DC CONVERTER Board

8.4.8 ENDING (FRONT) POSITION SENSOR Board

8.4.9 RELAY (UPPER) Board

8.4.10 WAITING SENSOR Board

8.4.11 STARTING POSITION SENSOR Board

8.4.12 WAITING LED Board

8.4.13 STARTING POSITION LED Board

8.4.14 RELAY (LOWER) Board

8.4.15 PAPER JAM SENSOR Board

8.4.16 ENDING (FRONT) POSITION LED Board

8.4.17 SIZE DETECTOR Board and Paper Detector

8.4.18 HOPPER POSITION Board

8.4.19 PAPER JAM LED Board

8.4.20 ENDING (REAR) POSITION SENSOR Board

8.4.21 POINTER DETECTOR Board

8.4.22 Power Switch

8.4.23 Fan

TOP PREVIOUS NEXT

8.4.1 MAIN CONTROL Board

1. Remove Side Cover (R) and Board Box Cover. (See 8.2.2 and 8.3.14)
2. Remove INTERFACE Board. (See 8.3.15)
3. Disconnect all connectors from/to MAIN CONTROL Board and MOTHER Board.

   Note:

   See Section 11 BLOCK DIAGRAM for connections.

   Before disconnecting all connectors, unlock the claws (Locking Section) on left side of clamps to release the cables from clamps.

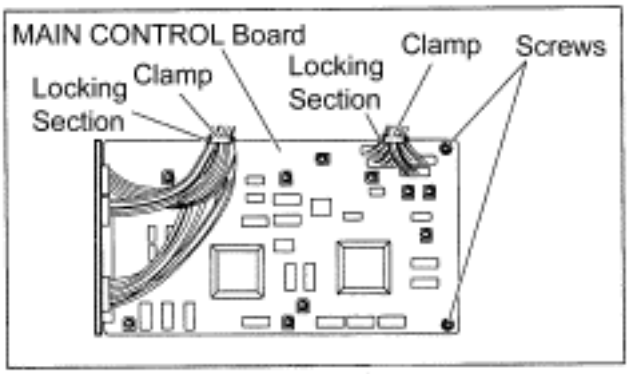


Fig. 8-31

1. Remove 2 screws.
2. Pull the MAIN CONTROL Board backward (10mm) and remove right side.

8.4.2 POWER Board

1. Remove Board Box Unit. (See 8.3.16)
2. Remove 2 screws and separate the Power box from the Board Box Unit.
3. Disconnect all connect tors from/to POWER Board.

   Note:

   See SECTION 11 BLOCK DIAGRAM for connections

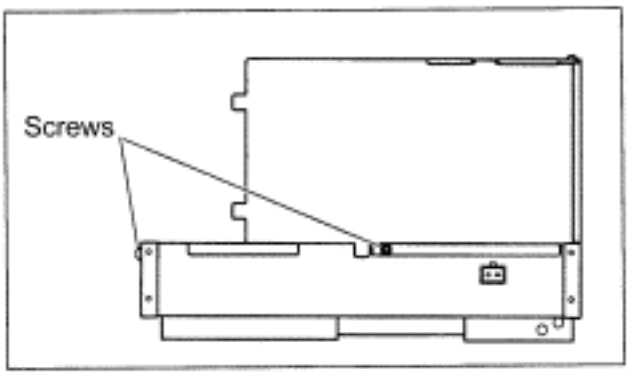


Fig. 8-32

1. Remove 10 screws and the POWER Board.

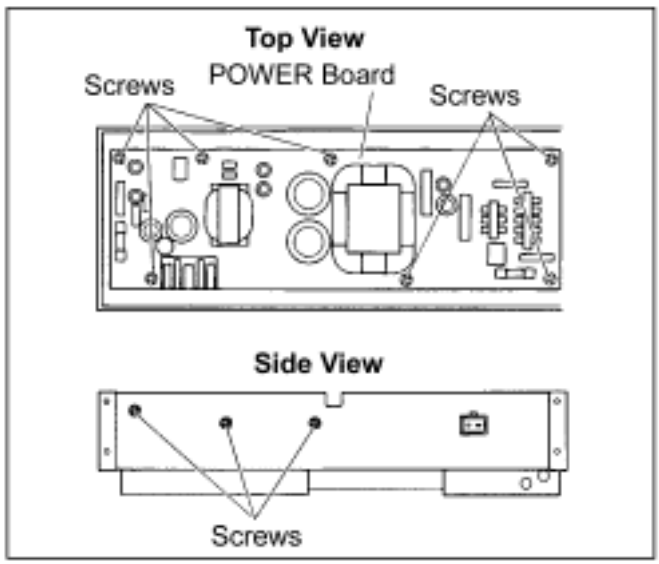


Fig. 8-33

8.4.3 MOTHER Board

1. Remove Board box Unit. (See 8.3.16)
2. Remove SCSI Board, MAIN CONTROL Board. (See 8.3.15 and 8.4.1)
3. Disconnect 2 connectors from MOTHER Board.
4. Remove 4 screws and the MOTHER Board.

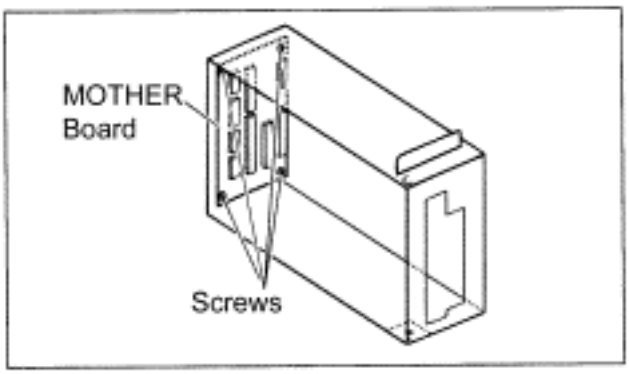


Fig. 8-34

8.4.4 DRIVE Board

1. Remove Rear Panel. (See 8.2.1)
2. Disconnect 5 connectors (CN371, CN372, CN341, CN351, CN332) from/to DRIVE Board.

   Note:

   See SECTION 11 BLOCK DIAGRAM for connections.
3. Remove 2 screws(a).
4. Pull the DRIVE Board.
5. Disconnect connector (CN331) from/to DRIVE Board

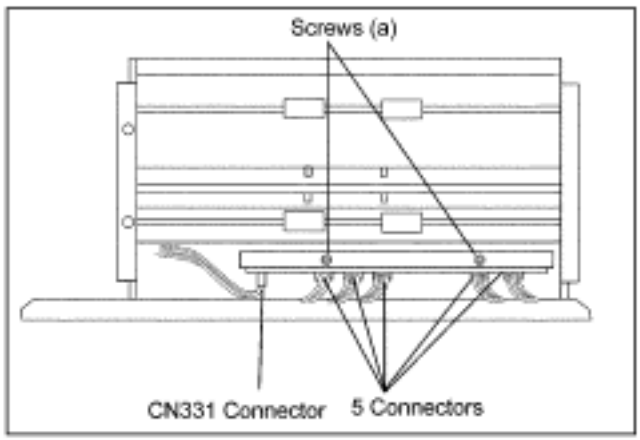


Fig. 8-35-A

1. Remove 3 screws(b).

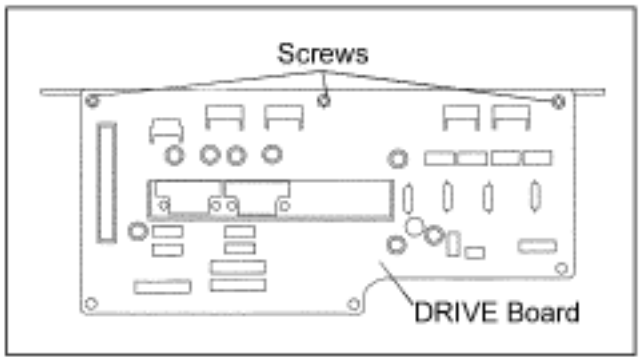


Fig. 8-35-B

8.4.5 POST IMPRINTER DOOR Board

1. Remove Rear Panel. (See 8.2.1)
2. Disconnect CN530.
3. Remove the screw inside the Rear Panel.

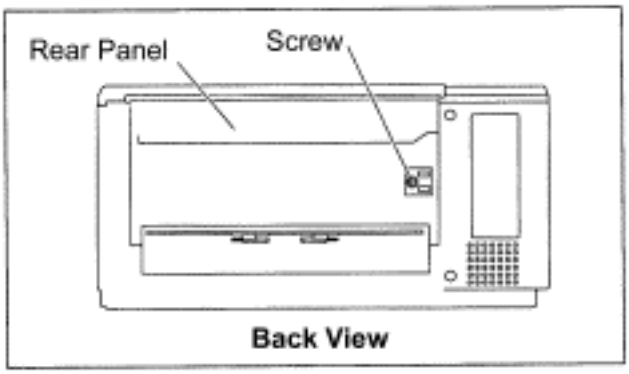


Fig. 8-36

8.4.6 PANEL Board

1. Remove Switch Panel. (See 8.2.3)
2. Disconnect the CN551.
3. Remove 6 screws.

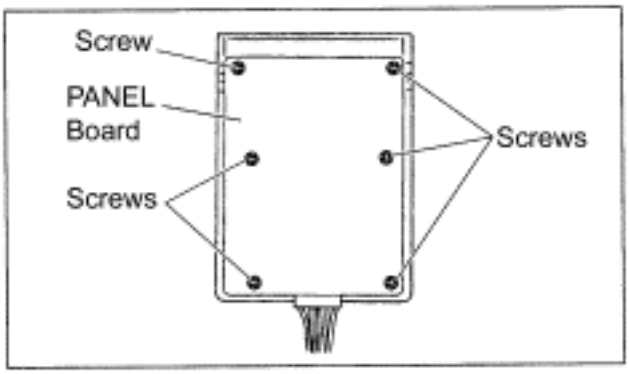


Fig. 8-37

8.4.7 DC-DC CONVERTER Board

TOP PREVIOUS NEXT

1. Remove Side Cover (R), and Switch Panel. (See 8.2.1 and 8.2.3)
2. Remove 4 screws.
3. Disconnect CN861 and CN862.

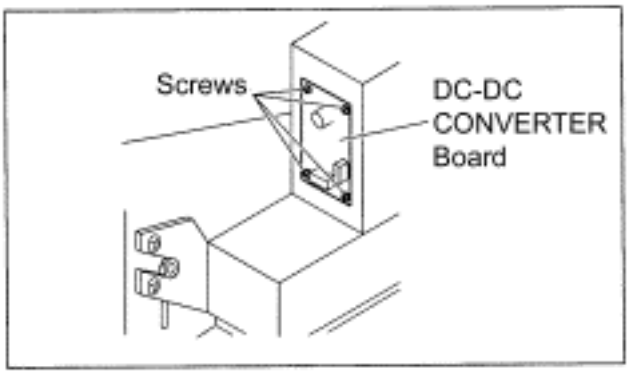


Fig. 8-38

TOP PREVIOUS NEXT

8.4.8 ENDING (FRONT) POSITION SENSOR Board

1. Remove Exit Cover. (See 8.2.5)
2. Disconnect CN529.
3. Remove 2 screws.

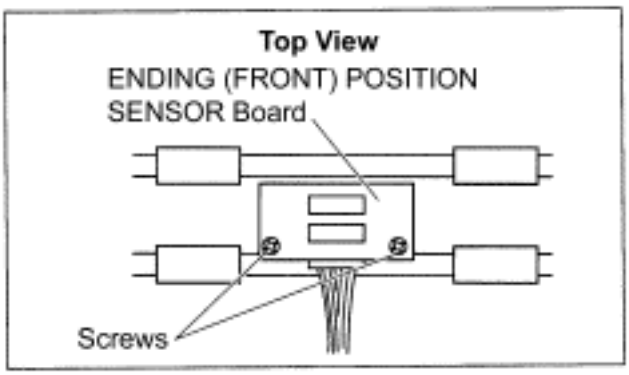


Fig. 8-39

8.4.9 RELAY (UPPER) Board

TOP PREVIOUS NEXT

1. Remove Exit Cover and Pre Imprinter Door./(See 8.2.5 and 8.2.6)
2. Remove 3 screws (A).
3. Remove 2 screws (B).
4. Disconnect all connectors.

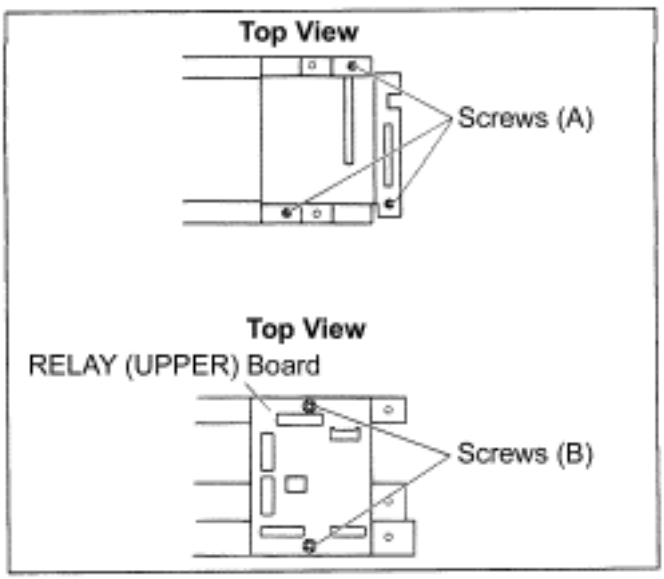


Fig. 8-40

TOP PREVIOUS NEXT

8.4.10 WAITING SENSOR Board

1. Remove the Conveyor Plate Upper 2. (See 8.3.1(1)-(3))
2. Remove 2 screws.
3. Disconnect CN525.

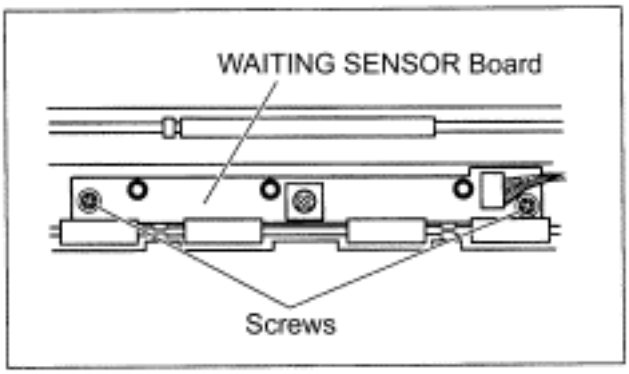


Fig. 8-41

8.4.11 STARTING POSITION SENSOR Board

TOP PREVIOUS NEXT

1. Remove the Conveyor Plate Upper 2. (See 8.3.1(1)-(3))
2. Remove 2 screws.
3. Disconnect CN524 and CN523.

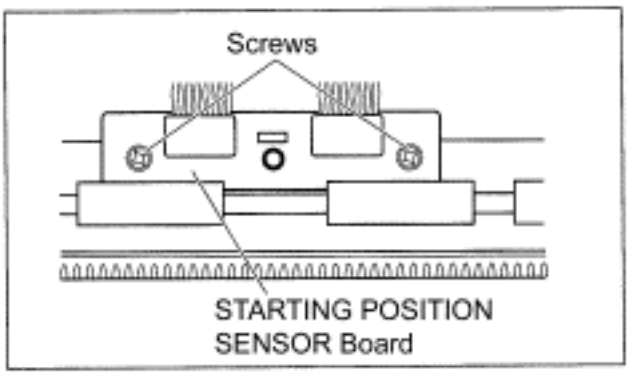


Fig. 8-42

TOP PREVIOUS NEXT

8.4.12 WAITING LED Board

1. Remove Drive Roller 1. (See 8.3.4)
2. Remove 2 screws.
3. Disconnect CN522.

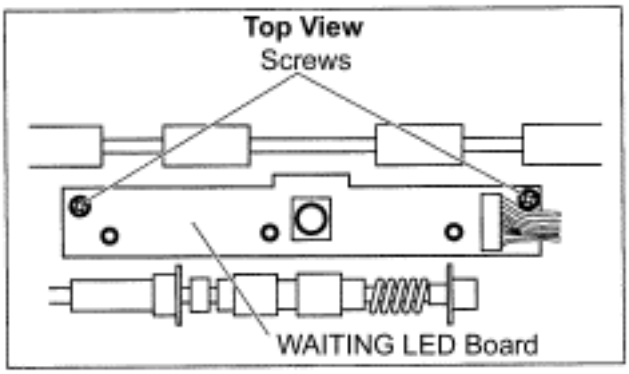


Fig. 8-43

8.4.13 STARTING POSITION LED Board

1. Remove Drive Roller 2.
2. Remove 2 screws.
3. Disconnect CN519 and CN520.

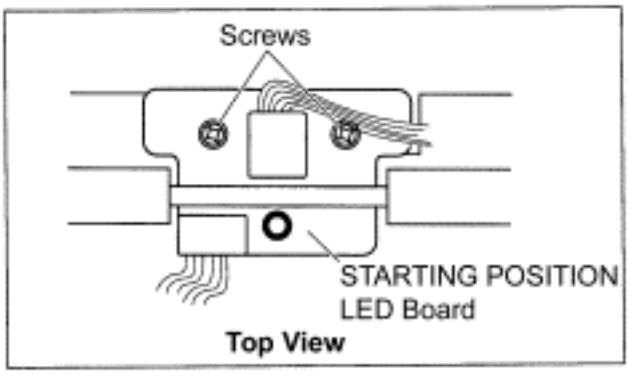


Fig. 8-44

8.4.14 RELAY (LOWER) Board

1. Remove Drive Roller 2. (See 8.3.4)
2. Disconnect all connectors.
3. Remove 2 screws.

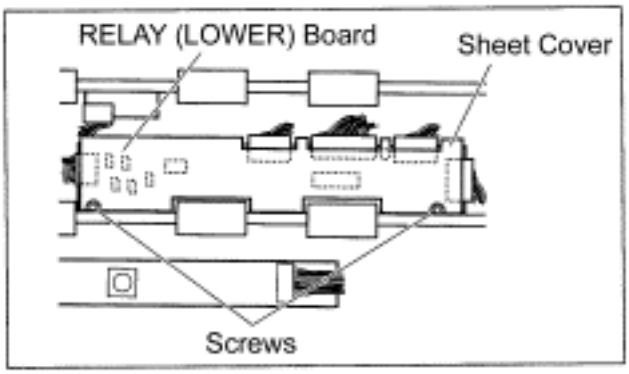


Fig. 8-45

8.4.15 PAPER JAM SENSOR Board

1. Remove Turn Conveyor Plate. (See 8.3.12)
2. Remove the PAPER JAM SENSOR Board.
3. Disconnect CN526 and CN527 inside Turn Conveyor Plate.

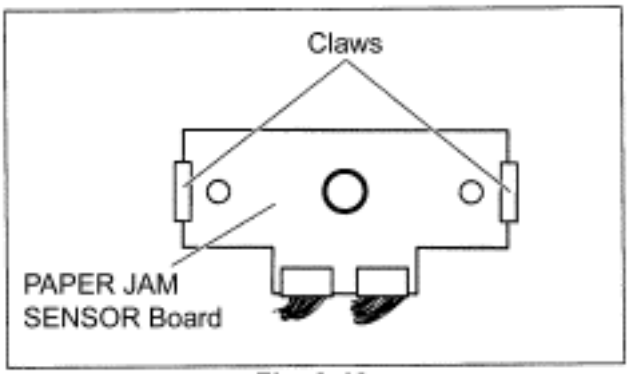


Fig. 8-46

8.4.16 ENDING (FRONT) POSITION LED Board

1. Remove Turn Conveyor Plate. (See 8.3.12)
2. Remove the ENDING (FRONT) POSITION LED Board.
3. Disconnect CN528.

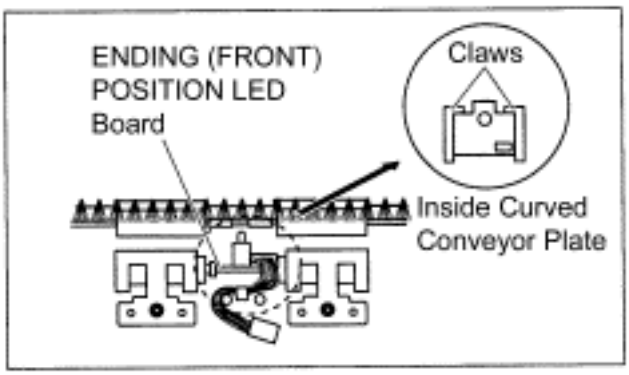


Fig. 8-47

8.4.17 SIZE DETECTOR Board and Paper Detector

1. Remove Hopper Unit. (See 8.2.10)
2. Remove 2 screws (a).
3. Disconnect CN513 and remove SIZE DETECTOR Board.
4. Remove 3 screws (b).
5. Disconnect connector and remove Paper Detector.

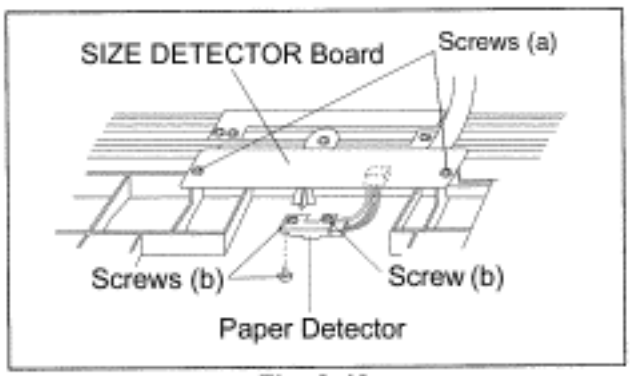


Fig. 8-48

8.4.18 HOPPER POSITION Board

TOP PREVIOUS NEXT

1. Remove Lower Cover Plate 1. (See 8.3.5-(1))
2. Remove Conveyor Plate Lower 2. (See 8.3.2-(2))
3. Remove Hopper Unit. (See 8.2.10)
4. Push 3 Clip and remove 1 screw as shown in the Fig. 8-49 and remove the HOPPER POSITION Board.
5. Disconnect CN511 and CN512.

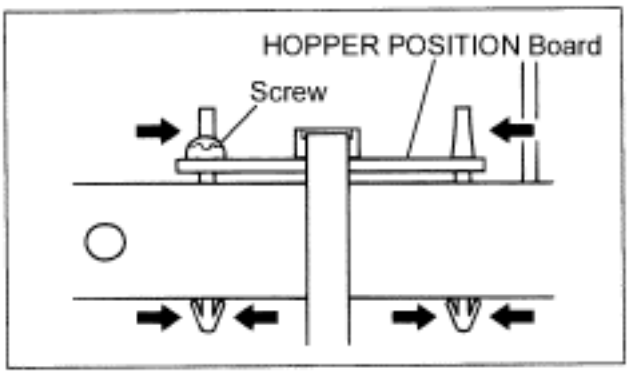


Fig. 8-49

TOP PREVIOUS NEXT

8.4.19 PAPER JAM LED Board

1. Remove Conveyor Roller. (See 8.3.3)
2. Remove 2 screws.
3. Disconnect CN518.

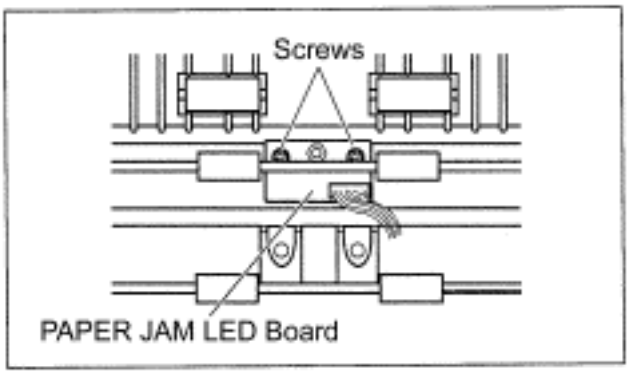


Fig. 8-50

8.4.20 ENDING (REAR) POSITION SENSOR Board

1. Remove Conveyor Roller. (See 8.3.3)
2. Remove 2 screws.
3. Disconnect CN516 and CN517.

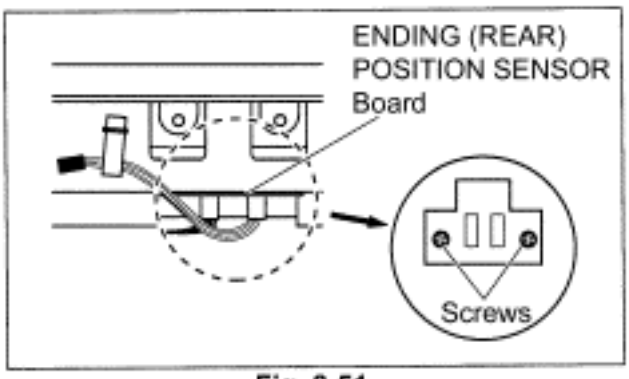


Fig. 8-51

8.4.21 POINTER DETECTOR Board

TOP PREVIOUS NEXT

1. Remove Conveyor Roller. (See 8.3.3)
2. Remove 2 screws.
3. Disconnect CN514 and CN515.

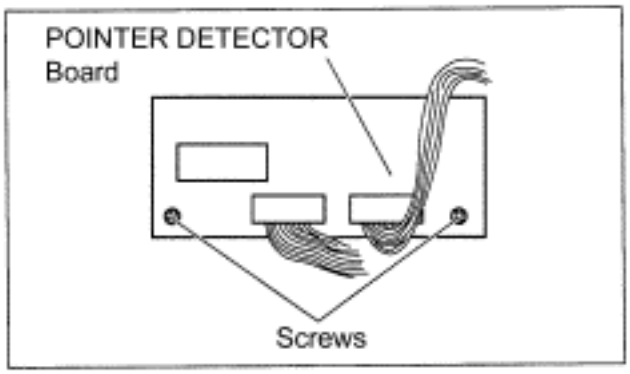


Fig. 8-52

TOP PREVIOUS NEXT

8.4.22 Power Switch

TOP PREVIOUS NEXT

1. Remove the Power Box. (See 8.4.2-(1), (2))

2. Disconnect the 2 lead terminals from the Power Switch terminal.

3. Remove the Power Switch from the chassis. (Pull out while pressing both sides of the locking section)

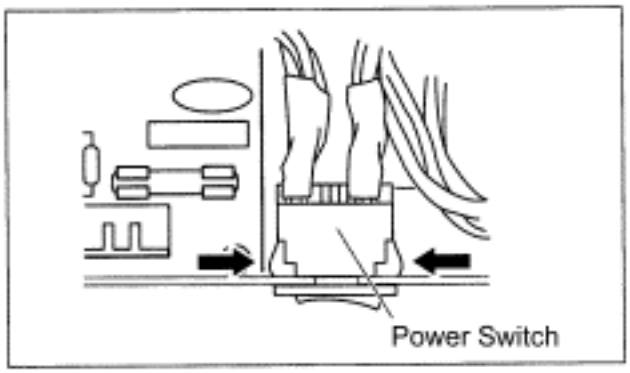
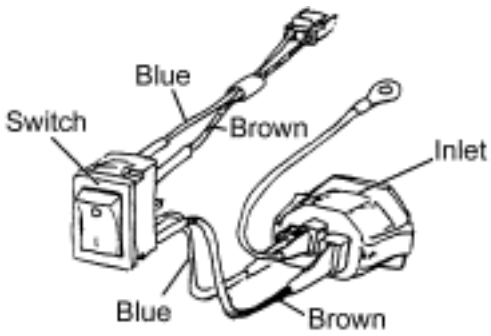


Fig. 8-53

WARNING (in case Power Switch and/or Inlet are replaced) When replacing the Power Switch or Inlet, the wiring must be installed as illustrated./Incorrect wiring may cause a short circuit.	

TOP PREVIOUS NEXT

8.4.23 Fan

1. Remove the Power Box. (See 8.4.2-(1), (2))
2. Disconnect Fan connector.
3. Remove 2 screws and the Fan.

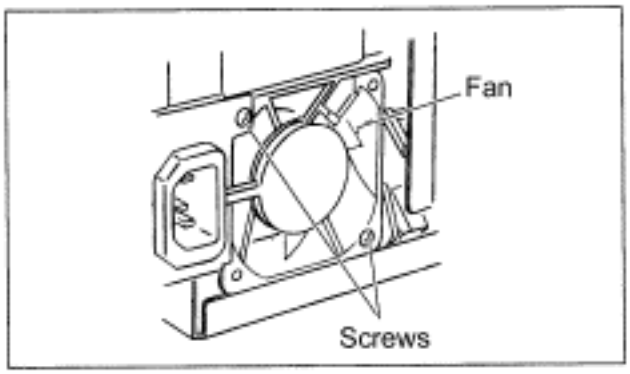


Fig. 8-54

9 OPERATION

TOP PREVIOUS NEXT

9.1 Front Panel Specifications

9.2 Operation - 1 (Normal Mode)

9.3 Operation - 2 (Service Mode)

9.4 Setting List

9.4.1 Scan Setting Mode (Normal Mode 1)

9.4.2 Counter Setting Mode (Normal Mode 2)

9.4.3 Imprinter Setting Mode (Normal Mode 3)

9.4.4 Other Setting Mode (Normal Mode 4)

9.4.5 Service Setting Mode (Service Mode 1)

9.4.6 Test Mode (Service Mode 2)

9.5 Setting Operation (Normal Mode)

9.5.1 Scan Setting Mode (Normal Mode 1)

9.5.2 Counter Setting Mode (Normal Mode 2)

9.5.3 Imprinter Setting Mode (Normal Mode 3 : Option)

9.5.4 Other Setting Mode (Normal Mode 4)

9.6 Setting Operation (Service Mode)

9.6.1 Service Setting Mode (Service Mode 1)

9.6.2 Test Mode (Service Mode 2)

9.1 Front Panel Specifications

TOP PREVIOUS NEXT

Item	Contents
Indication Device	LCD Display
Indication Matrix	16 Characters x 2 lines
Kind of Character for Indication	Alphabet, Number, Square Phonetic, Japanese Syllabary
Indicated Contents	System Status (Initializing, Ready, Scanning, Error, Warning) Setting (Scanning, Counter, Imprinter, Other) Service Mode
Indicated Languages	English, Germany, Japanese
Operation Key	SCAN, COUNTER, IMPRINT, OTHERS, ▲, ▼, ◄, ►,HOME, STOP/START Note : Going on pushing each key for more than 0.5 sec enables toenter in Repeat Mode

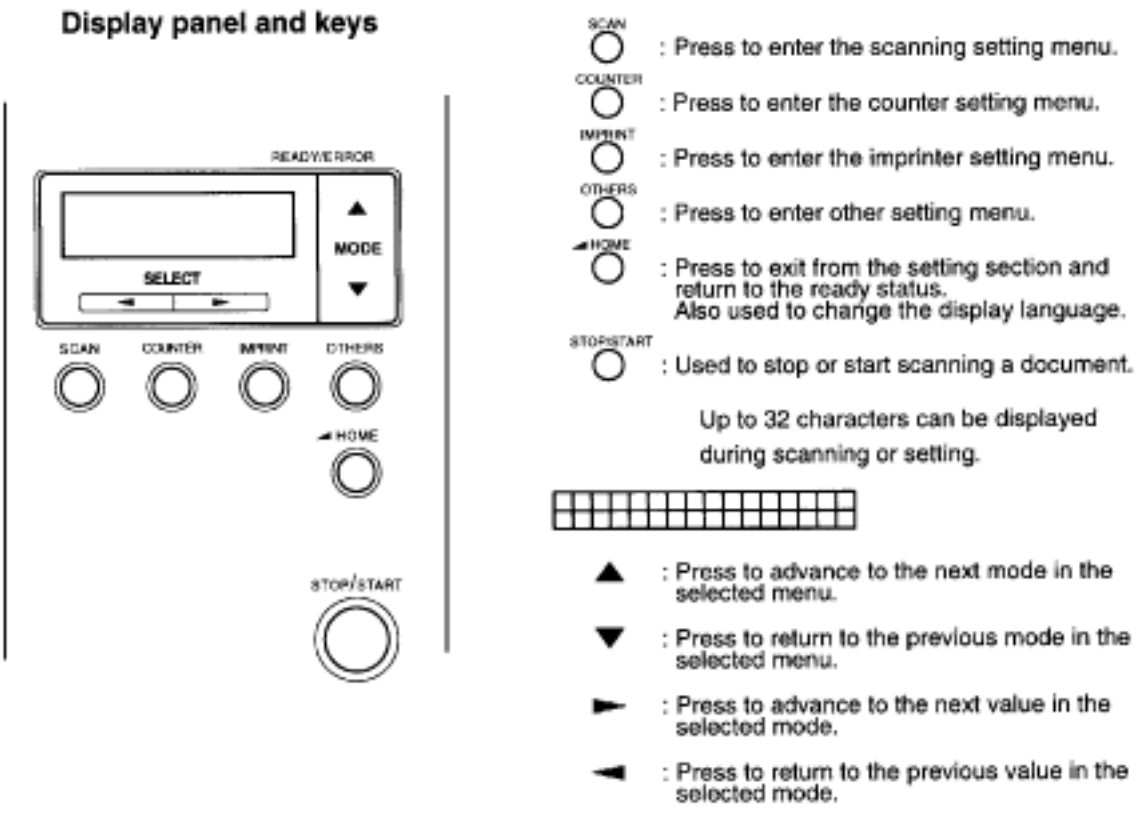

Display panel and keys
READY/ERROR
MODE
SELECT
SCAN
COUNTER
IMPRINT
OTHERS
HOME
STOP/START
: Press to enter the scanning setting menu.
: Press to enter the counter setting menu.
: Press to enter the imprinter setting menu.
: Press to enter other setting menu.
: Press to exit from the setting section and return to the ready status. Also used to change the display language.
: Used to stop or start scanning a document.
Up to 32 characters can be displayed during scanning or setting.
: Press to advance to the next mode in the selected menu.
: Press to return to the previous mode in the selected menu.
: Press to advance to the next value in the selected mode.
: Press to return to the previous value in the selected mode.

Fig. 9 - 1

Note:

Setting the language

1. Turn the power on while pressing the HOME Key.

1. Use the ◀ Key or the ▶ Key to select English Letter , English A4 or Deutsch A4 , ニホンゴ A4 .

1. Press the HOME Key.

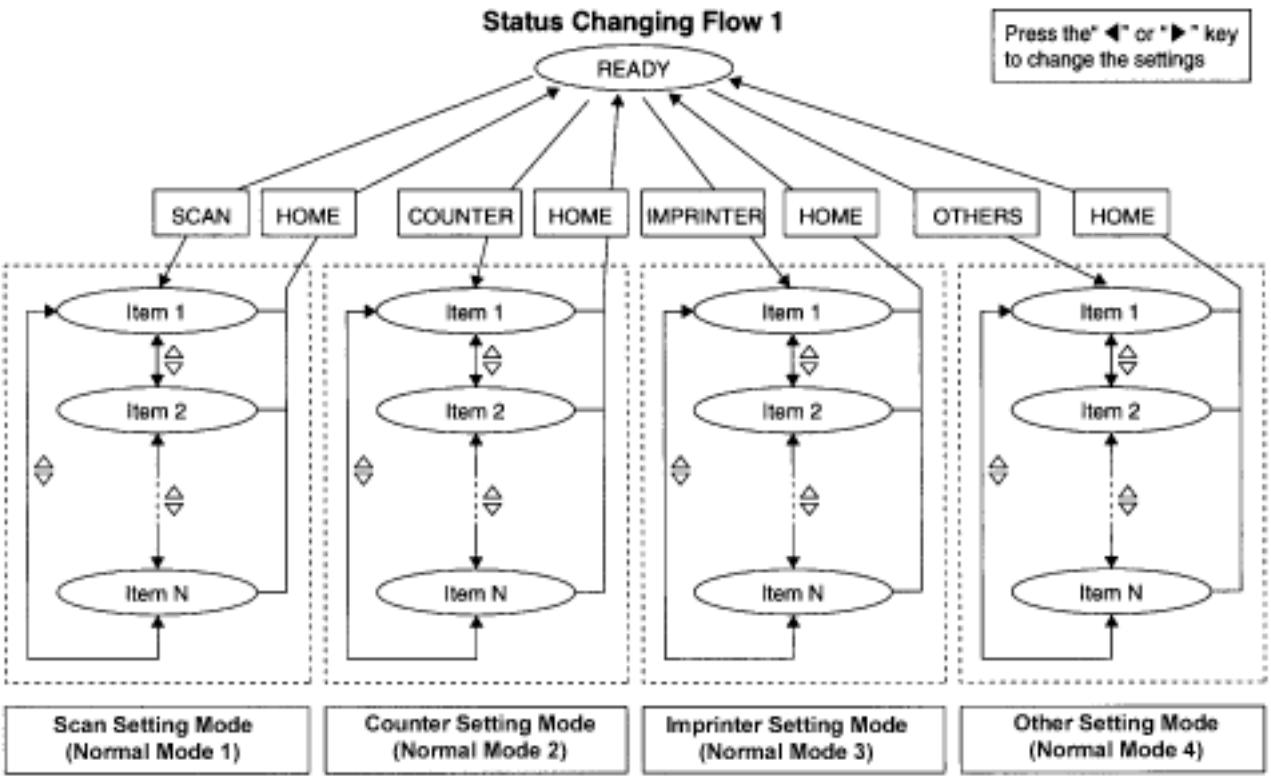
   • The display will change to the select language, then the scanner will be ready.

   • This setting will remain until it is changed to another setting.

TOP PREVIOUS NEXT

9.2 Operation - 1 (Normal Mode)

TOP PREVIOUS NEXT

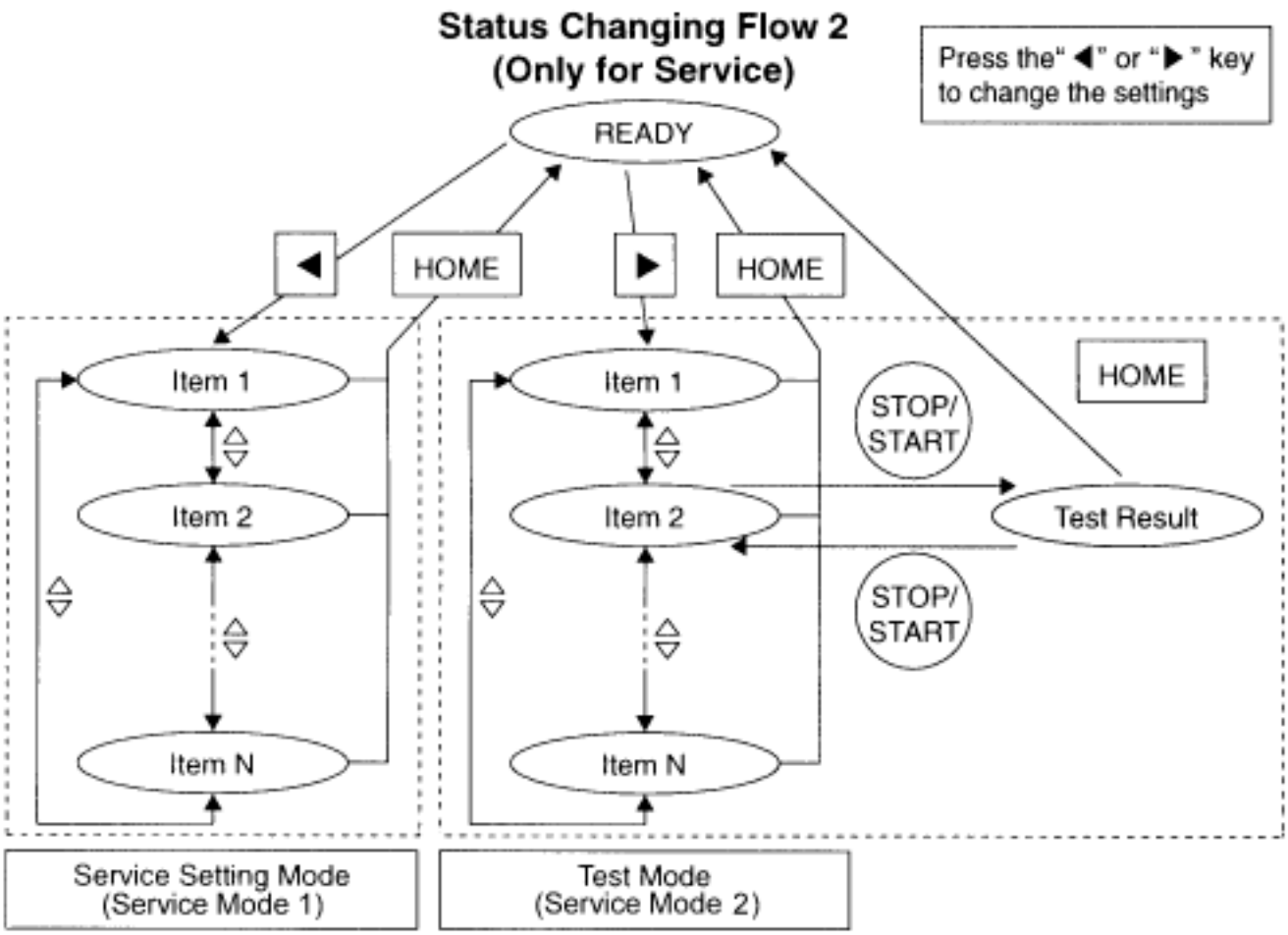


By pressing another key, you can enter the other Setting Mode directly, without returning back the READY Mode. The Imprinter Setting Mode will operate only if the Imprinter (optional) has been installed in the Main Unit (KV-S2065).

TOP PREVIOUS NEXT

9.3 Operation - 2 (Service Mode)

To enter Service Mode, turn on the Scanner while pressing the SCAN and the OTHER Keys simultaneously. Service Mode includes the Service Setting Mode and Test Mode. The Service Setting Mode offers functions that are not available in Normal Mode.The Service Setting Mode has Set Warning value for timing of cleaning or replacing roller, and so on. The Test Mode has a scanning test and EEPROM initialization and so on. The Service Setting Mode can be available until the poweris turned off.



9.4 Setting List

TOP PREVIOUS NEXT

9.4.1 Scan Setting Mode (Normal Mode 1)

9.4.2 Counter Setting Mode (Normal Mode 2)

9.4.3 Imprinter Setting Mode (Normal Mode 3)

9.4.4 Other Setting Mode (Normal Mode 4)

9.4.5 Service Setting Mode (Service Mode 1)

9.4.6 Test Mode (Service Mode 2)

TOP PREVIOUS NEXT

9.4.1 Scan Setting Mode (Normal Mode 1)

No.	Item	Setting Contents														Default	Factory Setting
1	F.Color drop	Host	Red	Green												Host	Host
																Host	Host
2	F.Brightness	Host	D4	D3	D2	D1	Norm	L1	L2	L3	L4					Host	Host
3	F.Emphasis	Host	Smooth	None	Low	Medium	High									Host	Host
4	F.Contrast	Host	L4	L3	L2	L1	Norm	H1	H2	H3	H4					Host	Host
5	F.Halftone	Host	Binary	Bayer dither 64	Bayer dither16	Halftone dot 32	Halftone dot 64	Error diffusion	*1 Dynamic TH.							Host	Host
6	B.Color drop	Host	Red	Green												Host	Host
																Host	Host
7	B.Brightness	Host	D4	D3	D2	D1	Norm	L1	L2	L3	L4					Host	Host
8	B. Emphasis	Host	Smooth	None	Low	Medium	High									Host	Host
9	B.Contrast	Host	L4	L3	L2	L1	Norm	H1	H2	H3	H4					Host	Host
10	B.Halftone	Host	Binary	Bayer dither 64	Bayer dither 16	Halftone dot 32	Halftone dot 64	Error diffusion	*1 Dynamic TH.							Host	Host
11	Noise Reduction	Host	None	B 1 x 1	B 2 x 2	B 3 x 3	B 4 x 4	B 5 x 5	B 6 x 6	W 1 x 1	W 2 x 2	W 3 x 3	W 4 x 4	W 5 x 5	W 6 x 6	Host	Host
12	Black Line Remove	Host	Disable	Enable												Host	Host
13	Scanning Mode	Host	Fit to Page	Actual												Host	Host
14	Double Feed	Host	Not Detect	Detect												Host	Host
15	Double Feed (Action after detecting double feed)	Host	Stop	Buzzer												Host	Host
16	Double Feed (Set Sensitivity)	Host	Low Sensitivity	Normal Sens.	High Sensitivity											Host	Host
17	Feed Speed	Host	Slow	Normal	Fast											Host	Host
18-a	Save Setting (Select memory)	Memory 1	Memory 2													Memory 1	Memory 1
18-b	Save Setting (Memorize scanning condition to EEPROM)	Exec														-	-
19	Load Setting (for Scan condition)	Defalut	Memory 1	Memory 2												Default	Default

Note : *1

Without an additional memory on the SCSI board, this indication does not appear.

9.4.2 Counter Setting Mode (Normal Mode 2)

No.	Item	Setting Contents												Default	Factory Setting
1	Disp. Counter	Scan	User	System										Scan	Scan
2-a	User Counter (Set counter value)	0 - 9999999												0	0
2-b	User Counter (Set increment Value)	+1 - +9												+1	+1
2-c	User Counter (Clear user counter)	Clear												-	-
3	System Counter													-	0

9.4.3 Imprinter Setting Mode (Normal Mode 3)

No.	Item	Setting Contents												Default	Factory Setting
1	Pre Imprint (Select contents to print)	Host	Count											Host	Host
2	Pre Position (Set printed position)	Host	0 - 72 Cha											Host	Host
3	Pre Font	Host	Bold	Normal										Host	Host
4	Pre Rotate	Host	0°	90°	180°	270°								Host	Host
11	Post Imprint (Select contents to print)	Host	Count											Host	Host
12	Post Position (Set printed position)	Host	0 - 72 Cha											Host	Host
13	Post Font	Host	Bold	Normal										Host	Host
14	Post Rotate	Host	0°	90°	180°	270°								Host	Host

Note:

- The Imprinter Setting Mode is available only if the optional Imprinter is installed.
- The Imprinter Setting Mode 1 - 4 will not be displayed if the Pre Imprinter is not installed.
- The Imprinter Setting Mode 11 - 14 will not be displayed if the Post Imprinter is not installed.
- 2. Pre Position, 12. Post Position
  Set the position from which printing starts, based on the top of the sheet.

9.4.4 Other Setting Mode (Normal Mode 4)

No.	Item	Setting Contents												Default	Factory Setting
1	Version													–	–
2	Buzzer	OFF	ON											ON	ON
3	SCSI ID	No. 0 - 7												6	6
4	Terminator	Enable	Disable											Enable	Enable
5	Transfer Rate	20 MByte/sec	10 MByte/sec											20 MByte/sec	20 MByte/sec
6-a	Clean Roller Warning (Disp. %)	~%												0%	0%
6-b	Clean Roller (Clear warning for "Clear Roller")	Clear												-	–
7-a	Replace Roller (Disp. %)	~%												0%	0%
7-b	Replace Roller (Clear warning for "Replace Roller")	Clear												-	–
8	Product ID	KV-S2065	KV-SS855	KV-S2055	KV-S6055	KV-S6045								KV-S2065	KV-S2065
9	Sleep Mode (Set period to enter in Sleep Mode)	Disable	After 1min ~ 60min											15min	15min

Note:

- If the scanner is the last device in the SCSI chain, then the terminator should be set to "Enable". But, under the above SCSI chain and scanner's turn-off, the terminator should be attached to the SCSI connector on the scanner.
- Setting the SCSI ID will be activated after turning the power OFF and turning it ON again.
- Setting the terminator will be activated after turning the power OFF and turning it ON again.

9.4.5 Service Setting Mode (Service Mode 1)

Note

*1 : Setting content (A4 or Letter) on the item 4 depends on Set lan guage .

Selected Mode		Detect Size
English A4	→	A4
English Letter	→	Letter
Deutsh A4	→	A4
ニホンゴ A4	→	A4

No.	Item	Setting Contents												Default	Factory Setting
1	PCB Rev.No. (Disp. PCB Version and others)													–	–
2	Clean Roller (Set counter for roller cleaning timing)	5000 - 1000000												50000	50000
3	Replace Roller (Set counter for roller replacement timing)	5000 - 1000000												300000	300000
4	Detect Size	A4	Letter											*1	*1
5	Adjust value for Length manually	28 - 228												–	–
6	Adjust value for Front V. Position manually	28 - 228												–	–
7	Sensor Delay (Adjust value for Sensor Delay manually)	80 - 255												–	–
8	Adjust value for Front H. Position manually	0 - 255												–	–
9	Adjust value for Back V. Position manually	28 - 228												–	–
10	Adjust value for Back H. Position manually	0 - 255												–	–
11	Set Default	Exec < >												–	–
12	Reset Language	Exec < >												–	–

9.4.6 Test Mode (Service Mode 2)

No.	Item	Setting Contents												Default	Factory Setting
1-a	Feed Test (Set Resolution and Test)	100 - 600	START											200	200
1-b	Feed Test (Set Size and Test)	A4	A5	A6	B4	B5	B6	B.C	Max	Ltr	Lgl	A3	START	A4	A4
1-c	Feed Test (Set Length Control and Test)	LC OFF	LC ON	START										ON	ON
1-d	Feed Test (Set Mode and Test)	Mode 1	Mode 2	Mode 3	START									Mode 1	Mode 1
2-a	F. CIS LED	0 - 255	START											–	–
2-b	B. CIS LED	0 - 255	START											–	–
3-a	F. CIS Black Level	0 - 255	START											–	–
3-b	B. CIS Black Level	0 - 255	START											–	–
4	Document Sensor (Check each document sensor condition)	START												–	–
5	Sensor Sensitive Level	START												–	–
6	Door & Home Sensor	START												–	–
7	Hopper Test	START												–	–
8	Conveyor Motor	START												–	–
9	Feed Motor	START												–	–
10	Aging	START												–	–
11	DIMM SPD (Information)	–												–	–
12	Memory Test	START												–	–
13	Sleep Mode	START												–	–
14	Init. EEPROM	Exec												–	–
15	Double Feed Test (Check double feed sensitivity after setting input-level)	0 - 255	START											–	–
16	Adjust Double Feed Detector	START												–	–
17	Adjust Length Automatically	START												–	–
18	Adjust Front V. Position Automatically	START												–	–
19	Adjust Front H. Position Automatically	START												–	–
20	Adjust Back V. Position Automatically	START												–	–
21	Adjust Back H. Position Automatically	START												–	–
22	Adjust All position & Length Automatically	START												–	–
23	Adjust Shading	START												–	–

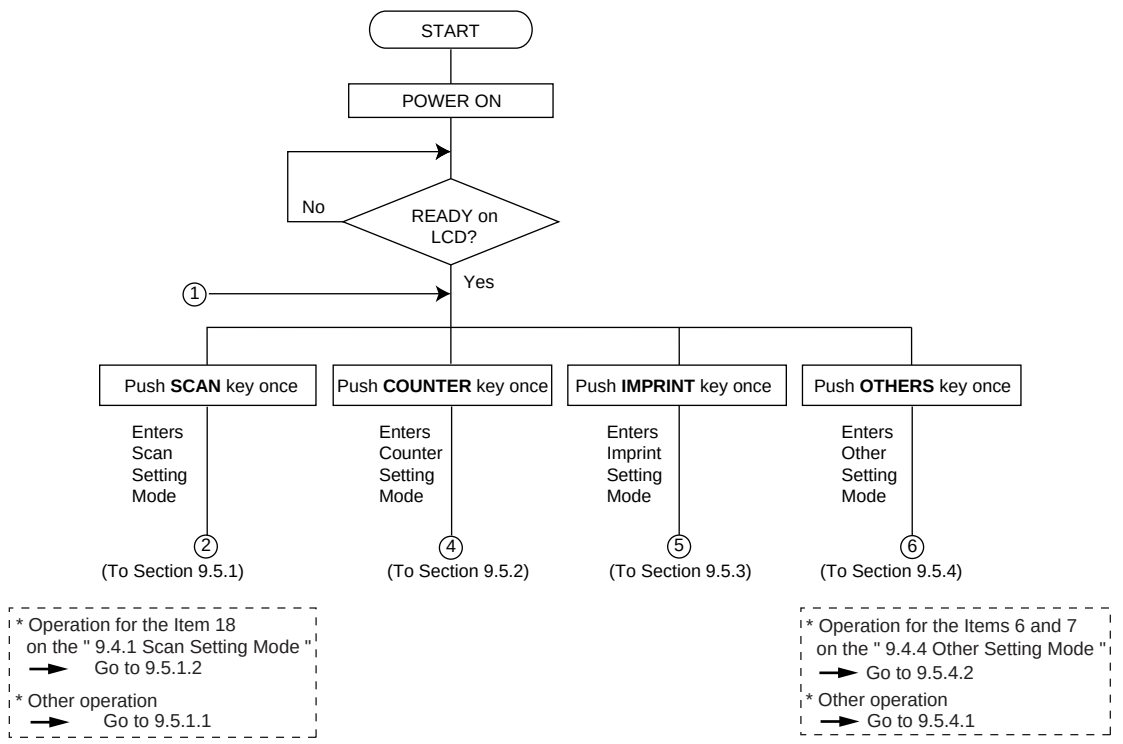
9.5 Setting Operation (Normal Mode)

9.5.1 Scan Setting Mode (Normal Mode 1)

9.5.2 Counter Setting Mode (Normal Mode 2)

9.5.3 Imprinter Setting Mode (Normal Mode 3 : Option)

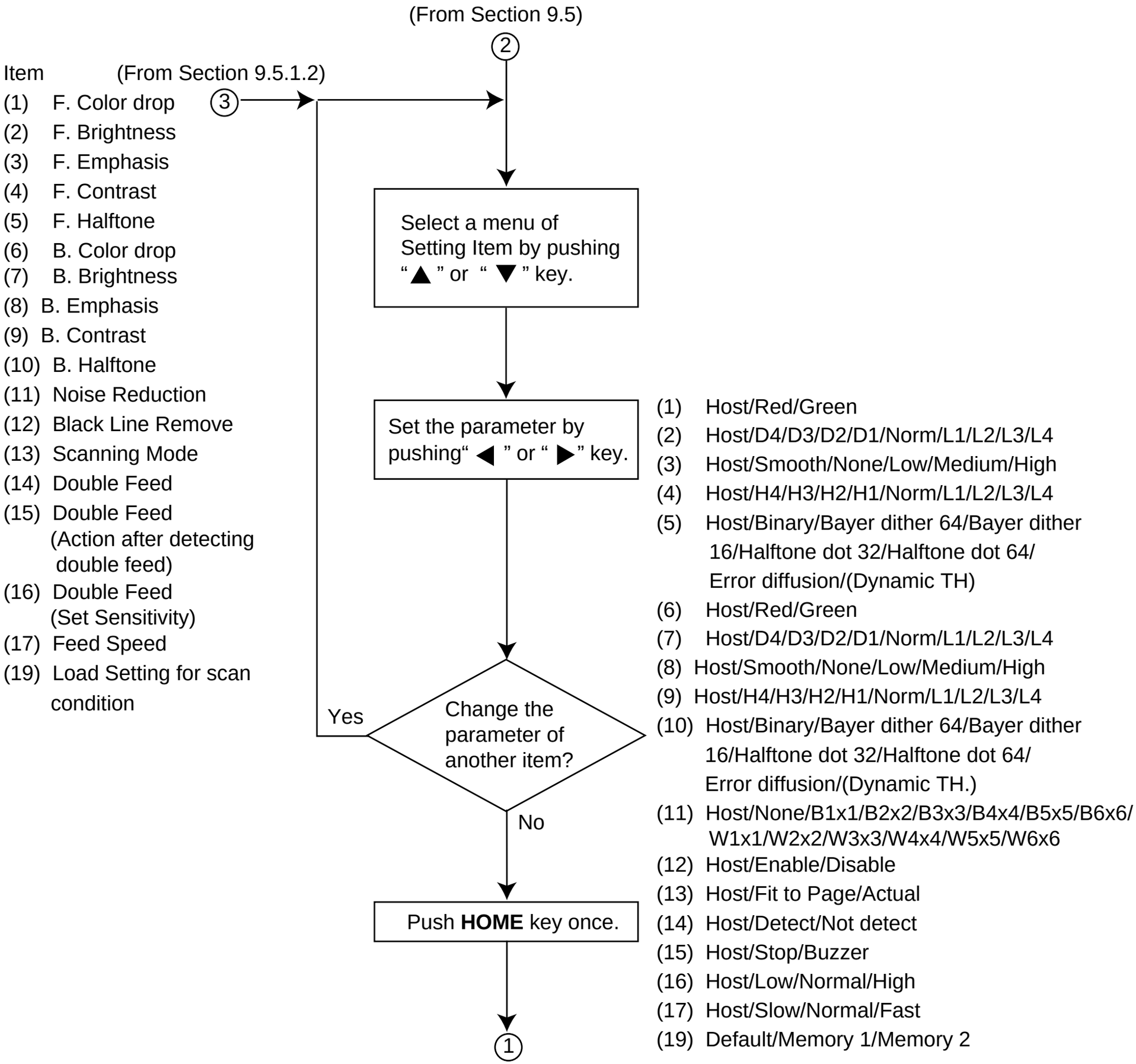
9.5.4 Other Setting Mode (Normal Mode 4)

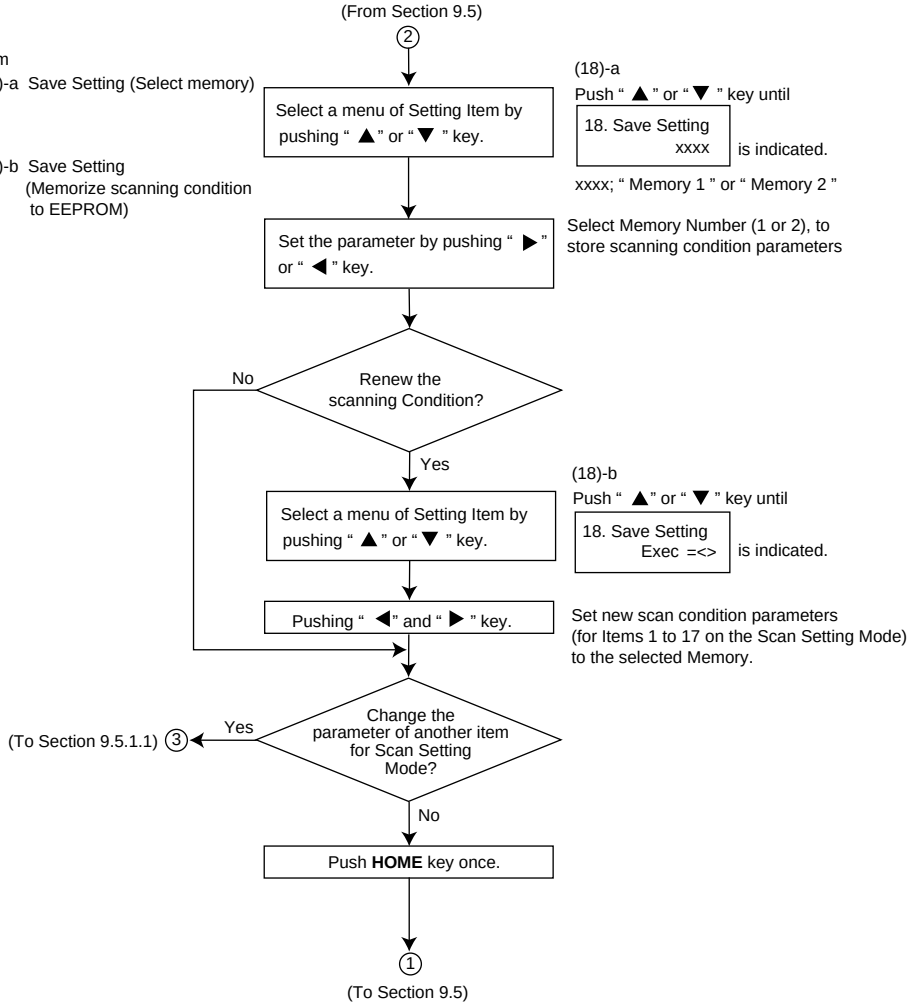

START
POWER ON
No
READY on LCD?
Yes
1
Push **SCAN** key once
Push **COUNTER** key once
Push **IMPRINT** key once
Push **OTHERS** key once
Enters Scan Setting Mode
Enters Counter Setting Mode
Enters Imprint Setting Mode
Enters Other Setting Mode
2
(To Section 9.5.1)
4
(To Section 9.5.2)
5
(To Section 9.5.3)
6
(To Section 9.5.4)
* Operation for the Item 18 on the " 9.4.1 Scan Setting Mode "
Go to 9.5.1.2
* Other operation
Go to 9.5.1.1
* Operation for the Items 6 and 7 on the " 9.4.4 Other Setting Mode "
Go to 9.5.4.2
* Other operation
Go to 9.5.4.1

9.5.1 Scan Setting Mode (Normal Mode 1)

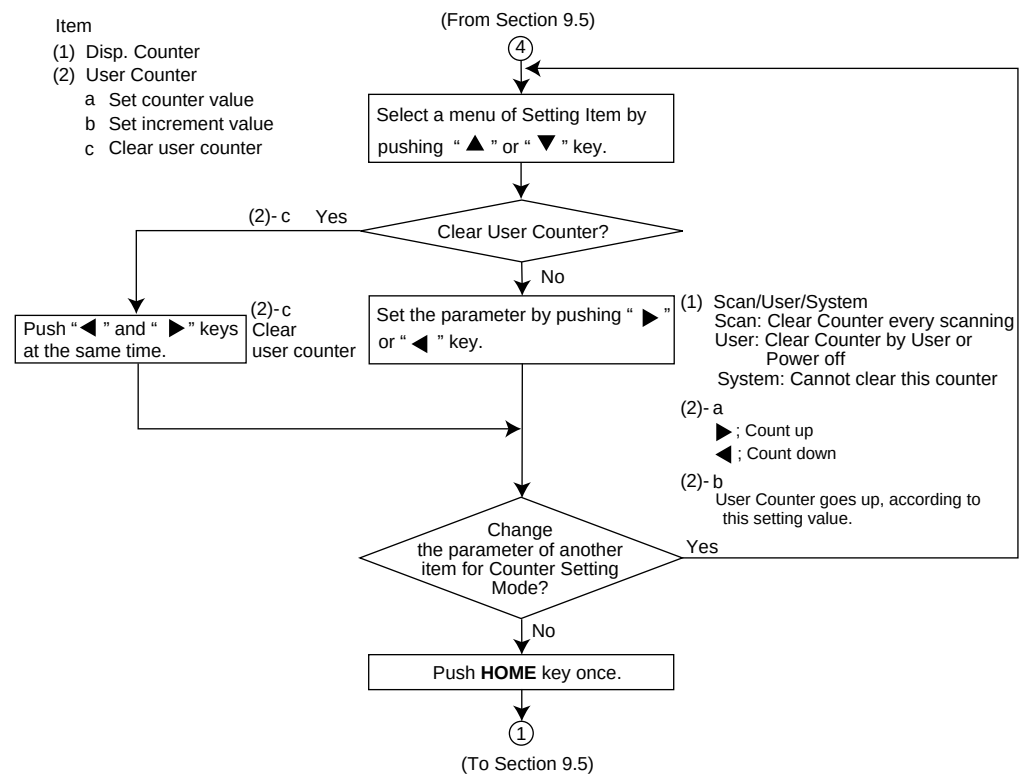
Mode - 1

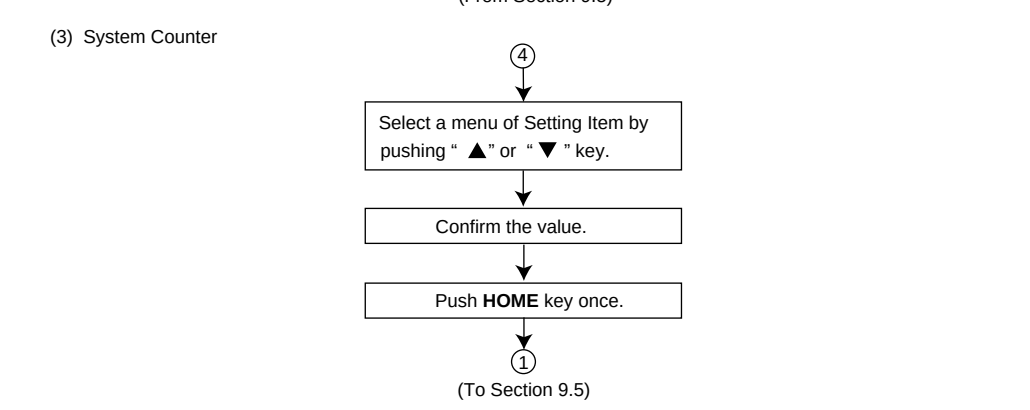
Mode - 2


(From Section 9.5)
2
Item
(From Section 9.5.1.2)
3
(1) F. Color drop
(2) F. Brightness
(3) F. Emphasis
(4) F. Contrast
(5) F. Halftone
(6) B. Color drop
(7) B. Brightness
(8) B. Emphasis
(9) B. Contrast
(10) B. Halftone
(11) Noise Reduction
(12) Black Line Remove
(13) Scanning Mode
(14) Double Feed
(15) Double Feed (Action after detecting double feed)
(16) Double Feed (Set Sensitivity)
(17) Feed Speed
(19) Load Setting for scan condition
Select a menu of Setting Item by pushing "▲" or "▼" key.
Set the parameter by pushing "◀" or "▶" key.
(1) Host/Red/Green
(2) Host/D4/D3/D2/D1/Norm/L1/L2/L3/L4
(3) Host/Smooth/None/Low/Medium/High
(4) Host/H4/H3/H2/H1/Norm/L1/L2/L3/L4
(5) Host/Binary/Bayer dither 64/Bayer dither 16/Halftone dot 32/Halftone dot 64/ Error diffusion/(Dynamic TH)
(6) Host/Red/Green
(7) Host/D4/D3/D2/D1/Norm/L1/L2/L3/L4
(8) Host/Smooth/None/Low/Medium/High
(9) Host/H4/H3/H2/H1/Norm/L1/L2/L3/L4
(10) Host/Binary/Bayer dither 64/Bayer dither 16/Halftone dot 32/Halftone dot 64/ Error diffusion/(Dynamic TH.)
(11) Host/None/B1x1/B2x2/B3x3/B4x4/B5x5/B6x6/ W1x1/W2x2/W3x3/W4x4/W5x5/W6x6
(12) Host/Enable/Disable
(13) Host/Fit to Page/Actual
(14) Host/Detect/Not detect
(15) Host/Stop/Buzzer
(16) Host/Low/Normal/High
(17) Host/Slow/Normal/Fast
(19) Default/Memory 1/Memory 2
Change the parameter of another item?
Yes
No
Push **HOME** key once.
1
(To Section 9.5)

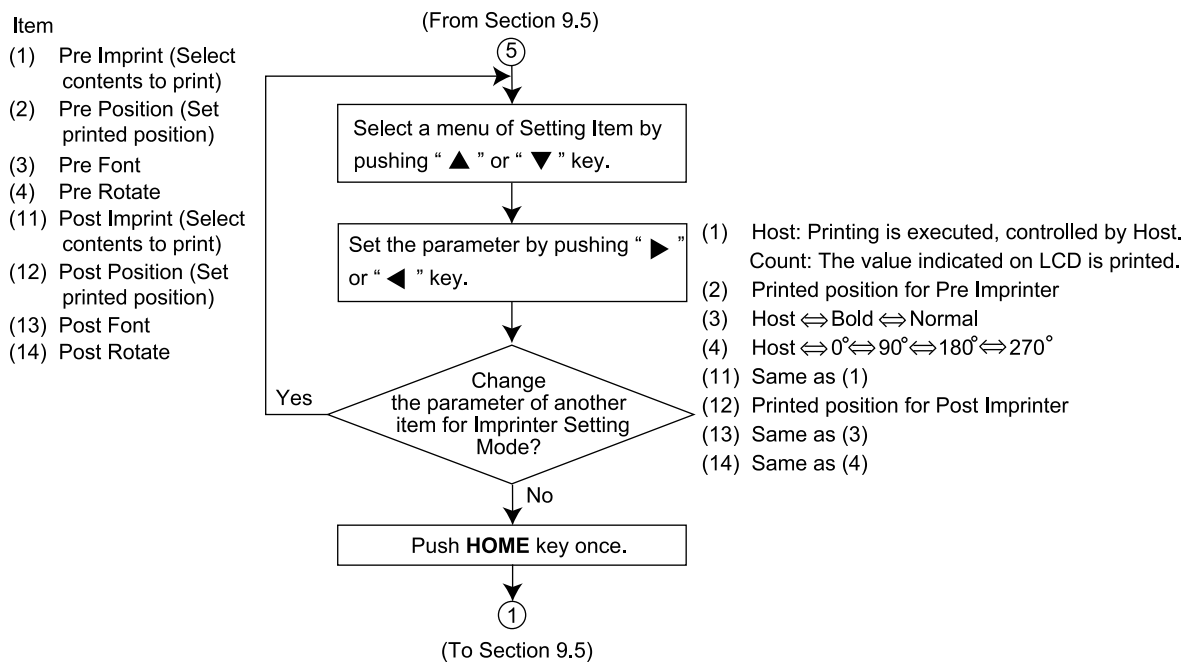

(From Section 9.5)
2
Item
(18)-a Save Setting (Select memory)
(18)-b Save Setting
(Memorize scanning condition
to EEPROM)
Select a menu of Setting Item by
pushing " ▲ " or " ▼ " key.
(18)-a
Push " ▲ " or " ▼ " key until
18. Save Setting
xxxx
is indicated.
xxxx; " Memory 1 " or " Memory 2 "
Set the parameter by pushing " ▶ "
or " ◀ " key.
Select Memory Number (1 or 2), to
store scanning condition parameters
No
Renew the
scanning Condition?
Yes
(18)-b
Push " ▲ " or " ▼ " key until
Select a menu of Setting Item by
pushing " ▲ " or " ▼ " key.
18. Save Setting
Exec =<>
is indicated.
Pushing " ◀ " and " ▶ " key.
Set new scan condition parameters
(for Items 1 to 17 on the Scan Setting Mode)
to the selected Memory.
Change the
parameter of another item
for Scan Setting
Mode?
Yes
(To Section 9.5.1.1) 3
No
Push HOME key once.
1
(To Section 9.5)

9.5.2 Counter Setting Mode (Normal Mode 2)


Item
(1) Disp. Counter
(2) User Counter
a Set counter value
b Set increment value
c Clear user counter
(From Section 9.5)
4
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
(2)- c Yes
Clear User Counter?
No
Push " ◀ " and " ▶ " keys at the same time.
(2)-c Clear user counter
Set the parameter by pushing " ▶ " or " ◀ " key.
(1) Scan/User/System
Scan: Clear Counter every scanning
User: Clear Counter by User or Power off
System: Cannot clear this counter
(2)- a
▶ ; Count up
◀ ; Count down
(2)- b
User Counter goes up, according to this setting value.
Change the parameter of another item for Counter Setting Mode?
Yes
No
Push HOME key once.
1
(To Section 9.5)


(From Section 9.5)
(3) System Counter
4
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Confirm the value.
Push HOME key once.
1
(To Section 9.5)

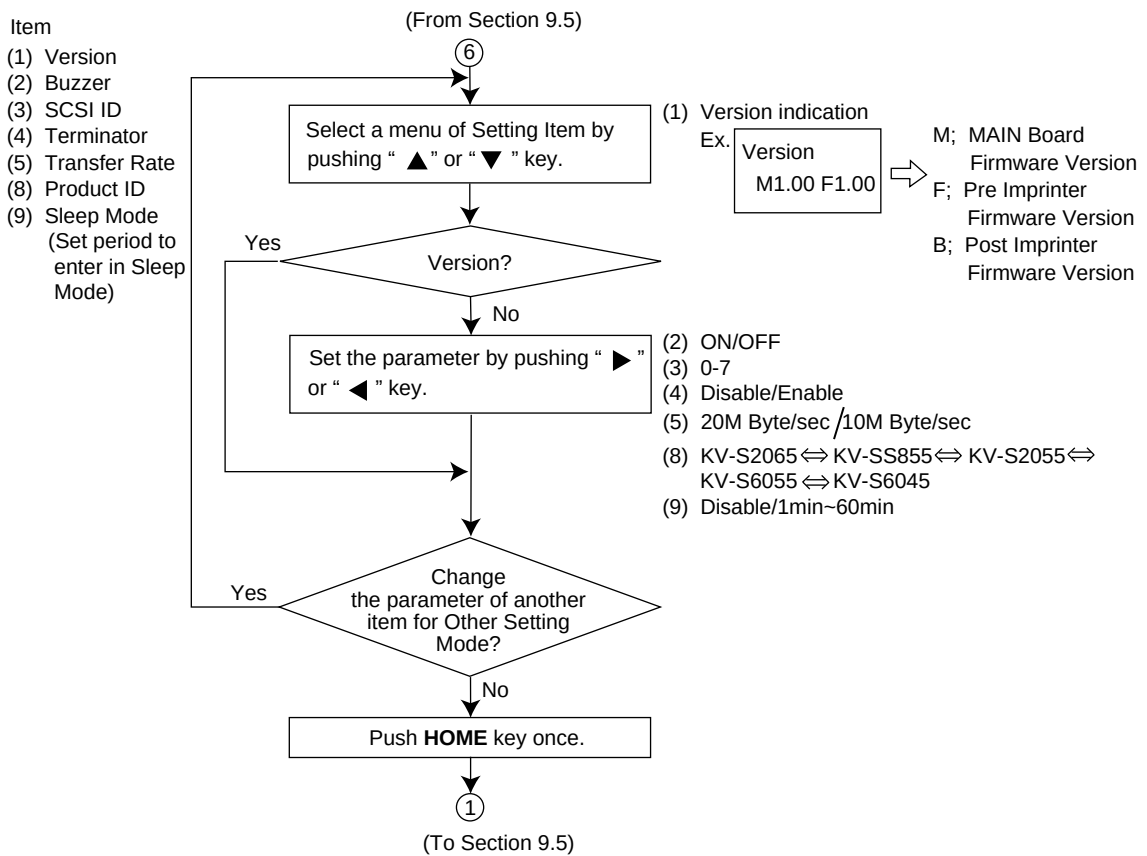
9.5.3 Imprinter Setting Mode (Normal Mode 3 : Option)


Item
(1) Pre Imprint (Select contents to print)
(2) Pre Position (Set printed position)
(3) Pre Font
(4) Pre Rotate
(11) Post Imprint (Select contents to print)
(12) Post Position (Set printed position)
(13) Post Font
(14) Post Rotate
(From Section 9.5)
5
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Set the parameter by pushing " ▶ " or " ◀ " key.
Change the parameter of another item for Imprinter Setting Mode?
Yes
No
Push HOME key once.
1
(To Section 9.5)
(1) Host: Printing is executed, controlled by Host.
Count: The value indicated on LCD is printed.
(2) Printed position for Pre Imprinter
(3) Host ⇔ Bold ⇔ Normal
(4) Host ⇔ 0° ⇔ 90° ⇔ 180° ⇔ 270°
(11) Same as (1)
(12) Printed position for Post Imprinter
(13) Same as (3)
(14) Same as (4)

9.5.4 Other Setting Mode (Normal Mode 4)

Mode - 1

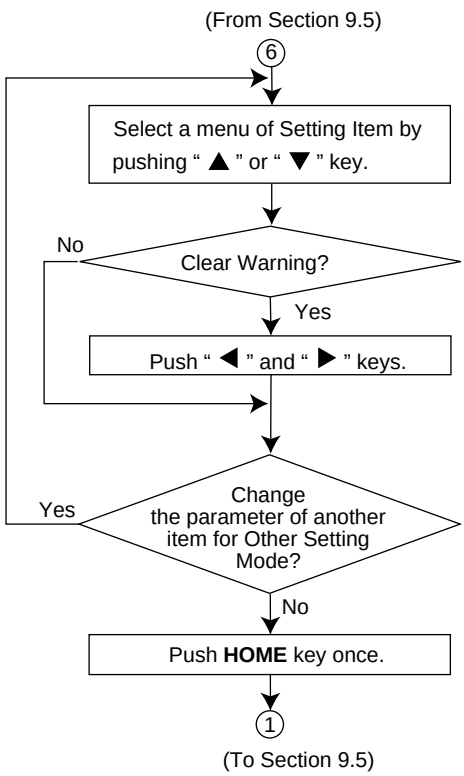
Mode - 2


Item
(1) Version
(2) Buzzer
(3) SCSI ID
(4) Terminator
(5) Transfer Rate
(8) Product ID
(9) Sleep Mode
(Set period to enter in Sleep Mode)
(From Section 9.5)
6
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Yes
Version?
No
Set the parameter by pushing " ▶ " or " ◀ " key.
Yes
Change the parameter of another item for Other Setting Mode?
No
Push HOME key once.
1
(To Section 9.5)
(1) Version indication
Ex.
Version
M1.00 F1.00
M; MAIN Board Firmware Version
F; Pre Imprinter Firmware Version
B; Post Imprinter Firmware Version
(2) ON/OFF
(3) 0-7
(4) Disable/Enable
(5) 20M Byte/sec /10M Byte/sec
(8) KV-S2065⇔KV-SS855⇔KV-S2055⇔KV-S6055⇔KV-S6045
(9) Disable/1min~60min

Item

(6) Clean Roller
  a Dips. %
  b Clear warning for "Clean Roller"

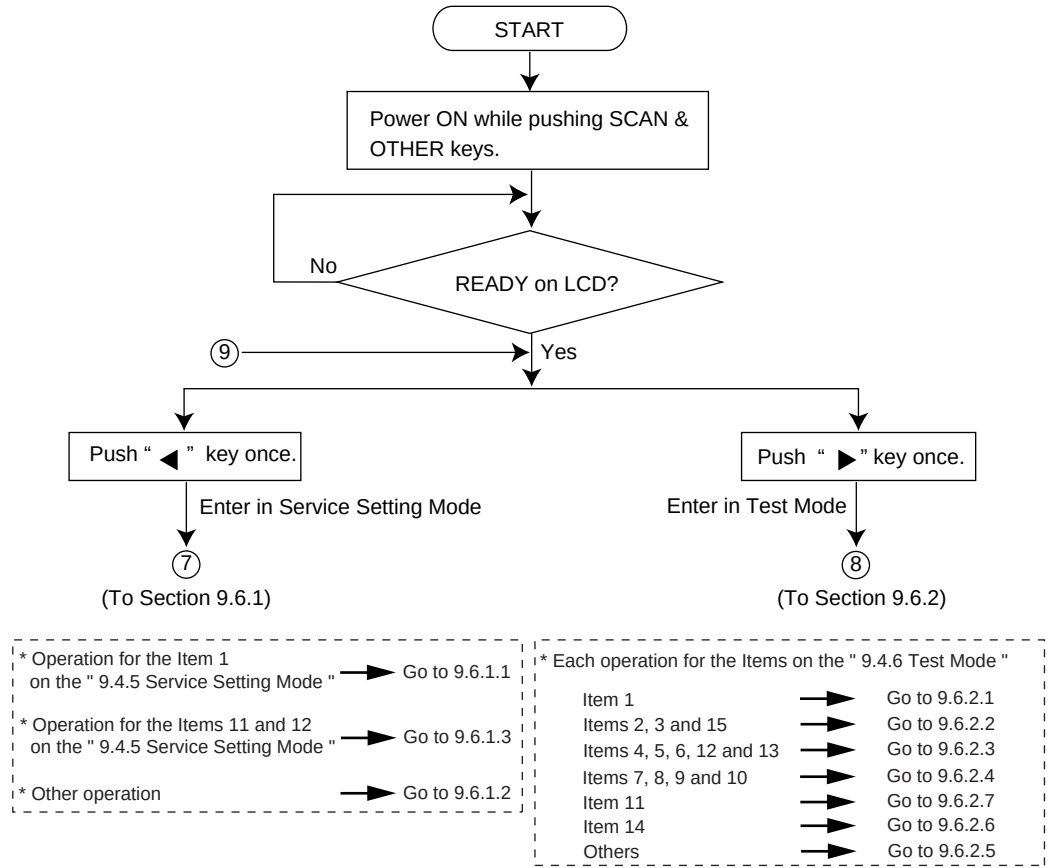
(7) Replace Roller
  a Dips. %
  b Clear warning for "Replace Roller"


(From Section 9.5)
6
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
(6)- a ; Indicates % based on the value of " Clean Roller " in Service Mode Setting
(7)- a ; Indicates % based on the value of "Replace Roller " in Service Mode Setting
No
Clear Warning?
Yes
Push " ◀ " and " ▶ " keys.
(6)- b
(7)- b
Clear Warning
Change the parameter of another item for Other Setting Mode?
Yes
No
Push **HOME** key once.
1
(To Section 9.5)

9.6 Setting Operation (Service Mode)

9.6.1 Service Setting Mode (Service Mode 1)

9.6.2 Test Mode (Service Mode 2)


START
Power ON while pushing SCAN & OTHER keys.
No
READY on LCD?
9
Yes
Push " ◀ " key once.
Enter in Service Setting Mode
7
(To Section 9.6.1)
Push " ▶ " key once.
Enter in Test Mode
8
(To Section 9.6.2)
* Operation for the Item 1 on the " 9.4.5 Service Setting Mode " → Go to 9.6.1.1
* Operation for the Items 11 and 12 on the " 9.4.5 Service Setting Mode " → Go to 9.6.1.3
* Other operation → Go to 9.6.1.2
* Each operation for the Items on the " 9.4.6 Test Mode "
Item 1 → Go to 9.6.2.1
Items 2, 3 and 15 → Go to 9.6.2.2
Items 4, 5, 6, 12 and 13 → Go to 9.6.2.3
Items 7, 8, 9 and 10 → Go to 9.6.2.4
Item 11 → Go to 9.6.2.7
Item 14 → Go to 9.6.2.6
Others → Go to 9.6.2.5

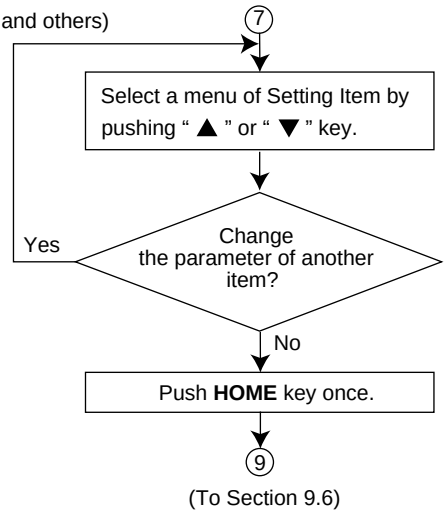
9.6.1 Service Setting Mode (Service Mode 1)

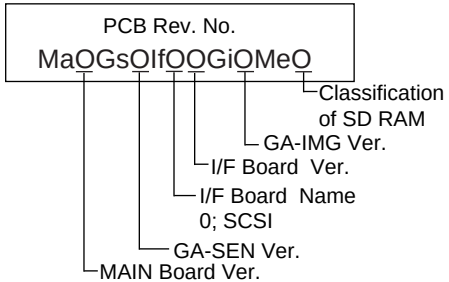
Mode - 1

Mode - 2

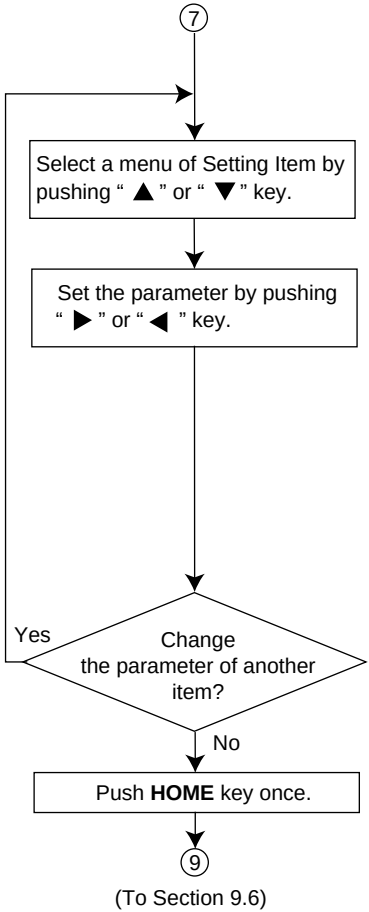
Mode - 3

(1) PCB Rev. No.
(Disp. PCB Version and others)


(From Section 9.6)
7
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Change the parameter of another item?
Yes
No
Push **HOME** key once.
9
(To Section 9.6)



(From Section 9.6)


7
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Set the parameter by pushing " ▶ " or " ◀ " key.
Change the parameter of another item?
Yes
No
Push **HOME** key once.
9

(To Section 9.6)

(2) Clean Roller (Set counter for roller cleaning timing)
(3) Replace Roller (Set counter for roller replacement timing)
(4) Detect Size
(5) Adjust value for Length manually
(6) Adjust value for Front V. Position manually
(7) Sensor Delay
(Adjust value for Sensor Delay manually)
(8) Adjust value for Front H. Position manually
(9) Adjust value for Back V. Position manually
(10) Adjust value for Back H. Position manually

H. : Horizontal
V. : Vertical

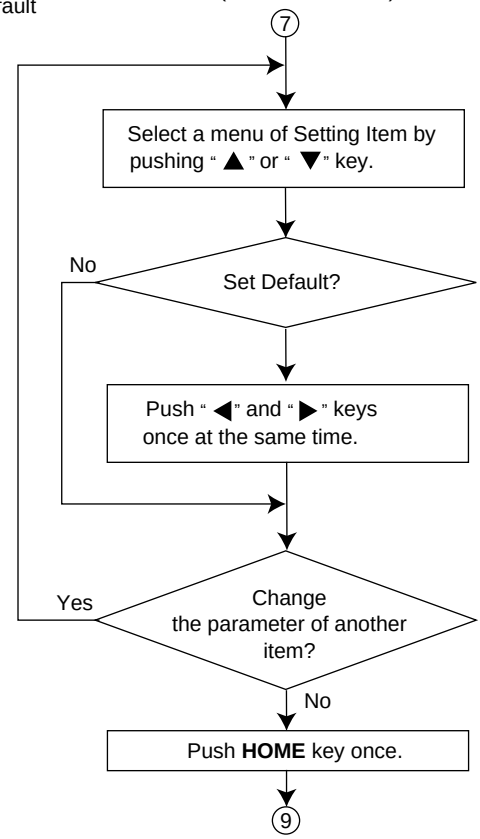
(2) Set paper scanning numbers to clean roller
Default; 50,000_
(3) Set paper scanning numbers to replace roller
Default; 300,000_
(4) A4/Letter
(5) ▶; 0.1 % longer
◀; 0.1 % shorter
(6) ▶; 0.1mm to lower side
◀; 0.1mm to upper side
(7) 80-255
▶ ; 0.1msec longer delay-time
◀ ; 0.1msec shorter delay-time
(8) ▶; 0.1mm to the right
◀; 0.1mm to the left
(9) Same as (6)
(10) Same as (8)

Note:

Execute the Item (5) before the Items (6) and (9).

(From Section 9.6)

(11) Set Default


7
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
No
Set Default?
Push " ◀ " and " ▶ " keys once at the same time.
Yes
Change the parameter of another item?
No
Push HOME key once.
9

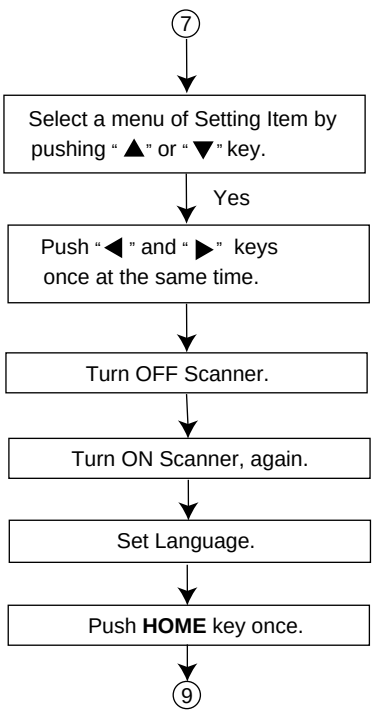
Pushing " ◀ " and " ▶ " keys changes setting on LCD into default except for the following contents.

- SCSI ID 0-7
- Terminator ON/OFF
- System Counter
- Adjust value for scanning position
- Language on LCD
- Double Feed
- Transfer Rate
- Sensor Delay (Adjust value for Sensor Delay manually)

(To Section 9.6)

(From Section 9.6)

(12) Reset Language


7
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Yes
Push " ◀ " and " ▶ " keys once at the same time.
Turn OFF Scanner.
Turn ON Scanner, again.
Set Language.
Push HOME key once.
9

- By operating this, Item 4 "Detect Size" (A4 or Letter) is set at the same time.

Note:
Refer to "9.1 Front Panel Specifications". (Setting the language)

(To Section 9.6)

9.6.2 Test Mode (Service Mode 2)

Mode - 1

Mode - 2

Mode - 3

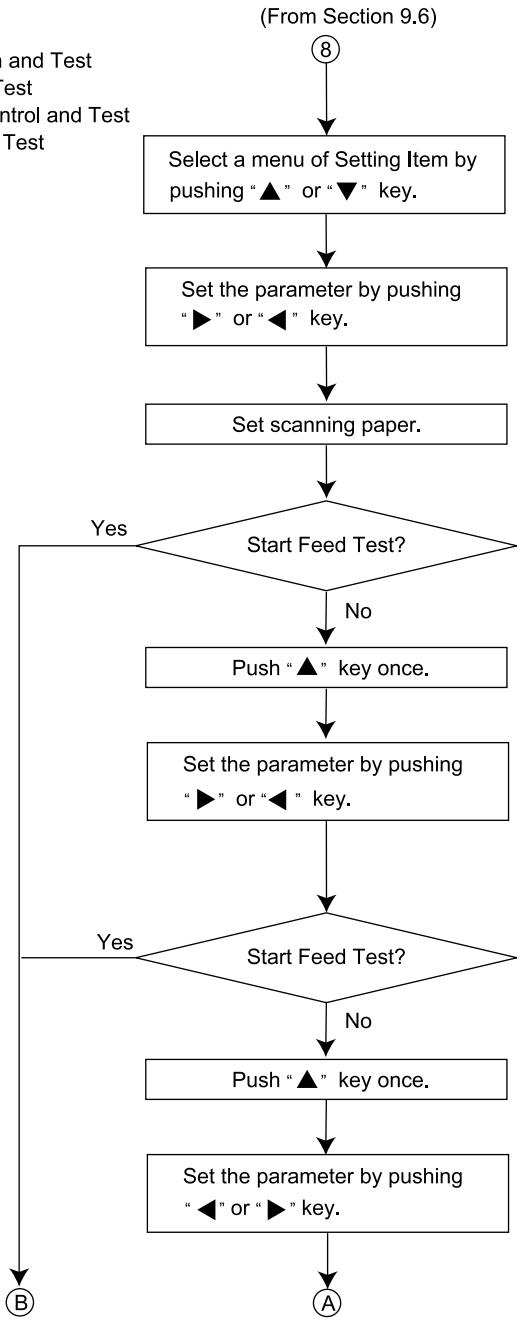
Mode - 4

Mode - 5

Mode - 6

Mode - 7

(1) Feed Test
a. Set Resolution and Test
b. Set Size and Test
c. Set Length Control and Test
d. Set Mode and Test



(1)-a

01 Feed Test
Res. xxx START

xxx: 100~600; Default 200
▶; 10 step-up every pushing
◀; 10 step-down every pushing

(1)-b

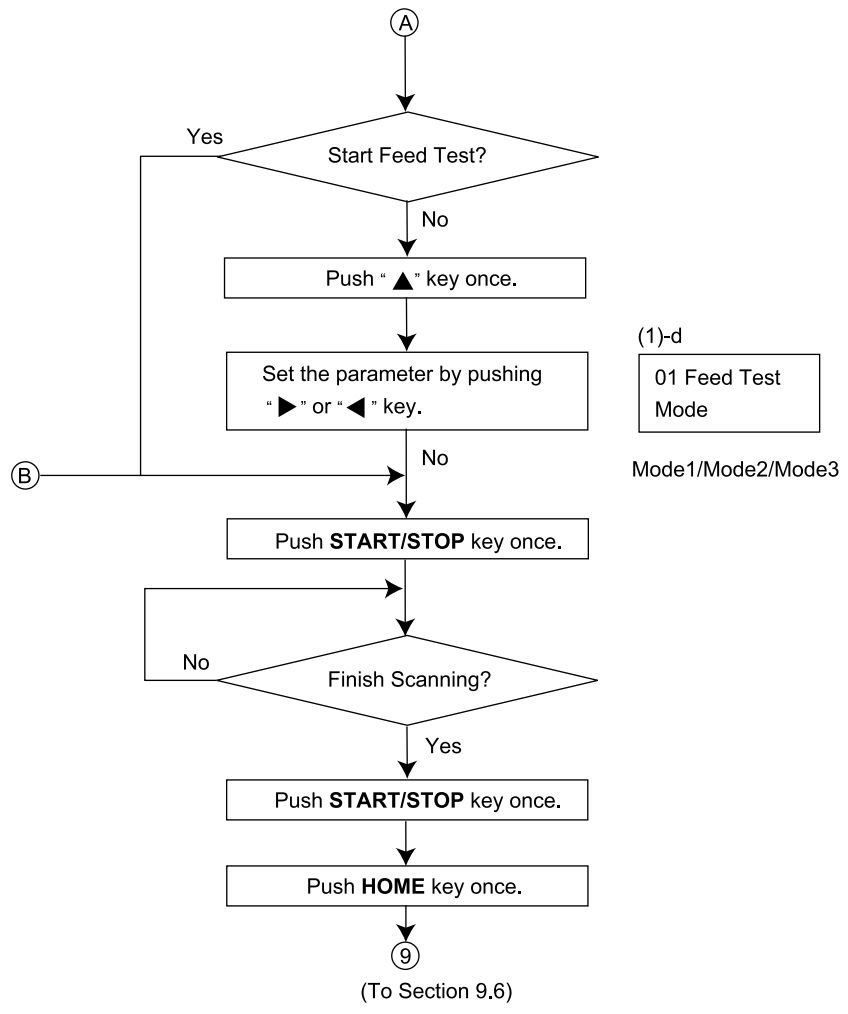
01 Feed Test
Size

Size Setting; Default A4
A4/A5/A6/(B4)/B5/B6/B.C/MAX/
Ltr/Lgl/(A3)
(B4); Only for KV-S2065W
(A3); Only for KV-S2065W
Ltr : Letter
Leg : Legal

(1)-c

01 Feed Test
LC

Length Control; Default OFF
LC ON/LC OFF
LC ON enables to start scanning the next page, when the original paper size is shorter than the paper setting.

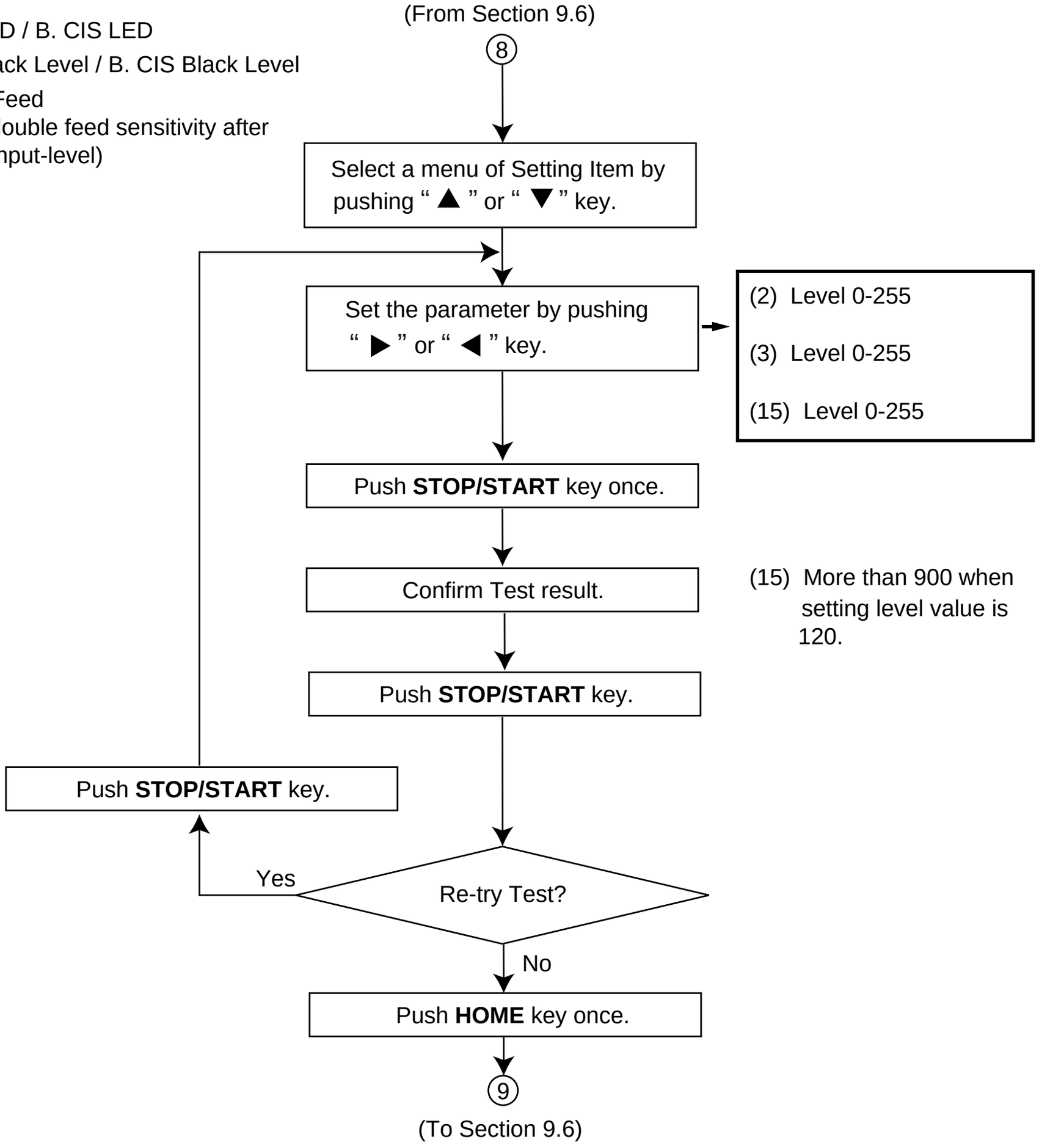

A
Start Feed Test?
Yes
No
Push " ▲ " key once.
Set the parameter by pushing " ▶ " or " ◀ " key.
(1)-d
01 Feed Test Mode
Mode1/Mode2/Mode3
B
No
Push START/STOP key once.
Finish Scanning?
No
Yes
Push START/STOP key once.
Push HOME key once.
9
(To Section 9.6)

(From Section 9.6)

(2) F. CIS LED / B. CIS LED

(3) F. CIS Black Level / B. CIS Black Level

(15) Double Feed
(Check double feed sensitivity after setting input-level)


8
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Set the parameter by pushing " ▶ " or " ◀ " key.
(2) Level 0-255
(3) Level 0-255
(15) Level 0-255
Push STOP/START key once.
Confirm Test result.
(15) More than 900 when setting level value is 120.
Push STOP/START key.
Push STOP/START key.
Yes
Re-try Test?
No
Push HOME key once.
9

(To Section 9.6)

(4) Document Sensor
(Check each document sensor condition)
(5) Sensor Sensitive Level
(6) Door & Home Sensor
(12) Memory Test
(13) Sleep Mode

(From Section 9.6)

(8)

Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.

Select Sensor Test ((4) or (5) or (6) or (11) or (12))

Push **STOP/START** key once.

Execute each Test

Confirm the Test result.

(4)

P	W	L	R	S	J	E	e	1	2	3	4	5			
1	0	1	0	1	1	0	1	0	0	0	0	1			

P: Status of Paper Feed Sensor
W: Status of Waiting Sensor
L: Status of Skew (L) Sensor
R: Status of Skew (R) Sensor
S: Status of Starting Position Sensor
J: Status of Jam Sensor
E: Status of Ending (Front) Position Sensor
e: Status of Ending (Back) Position Sensor
1,2,3,4,5 :

	1	2	3	4	5
A3	0	0	0	0	0
B4	1	0	0	0	0
A4 (Letter)	1	1	0	0	0
	0	1	0	0	0
B5	0	1	1	0	0
A5	0	0	1	0	0
B6	0	0	1	1	0
A6	0	0	0	1	0
	0	0	0	1	1
BC	0	0	0	0	1

(5)

P	W	L	R	S	J	E	e	1	2	3	4	5			
x	1	4	3	2	1	3	3	x	x	x	x	x			

P: Status of Paper Feed Sensor (x: No range)
W: Status of Waiting Sensor; Range 0-F (F: Darker)
L: Status of Skew (L) Sensor; Range 0-F (F: Darker)
R: Status of Skew (R) Sensor; Range 0-F (F: Darker)
S: Status of Starting Position Sensor; Range 0-F (F: Darker)
J: Status of Jam Sensor; Range 0-F (F: Darker)
E: Status of Ending (Front) Position Sensor; Range 0-F (F: Darker)
e: Status of Ending (Back) Position Sensor; Range 0-F (F: Darker)
1,2,3,4,5 : Each status of Paper Guide Position Sensors 1-5; (x: No range)

(6)

F	B	T								H		P		R
0	1	0								1		0		0

F: Status of Front Cover
B: Status of Back Cover
T: Status of Upper Cover
*When this status value is "1", it means door open.
H: Hopper Position Sensor (Value "1" means Hopper is in home)
P: Pointer Detector (Value "1" means Scan-out direction is upper-front side)
R: Retard Position Sensor (Value "1" means Retard position is released)

(12) No Error or Error Message
(13) No Error or Error Message

Push **STOP/START** key.

Yes

Test again?
or
Do another Test?

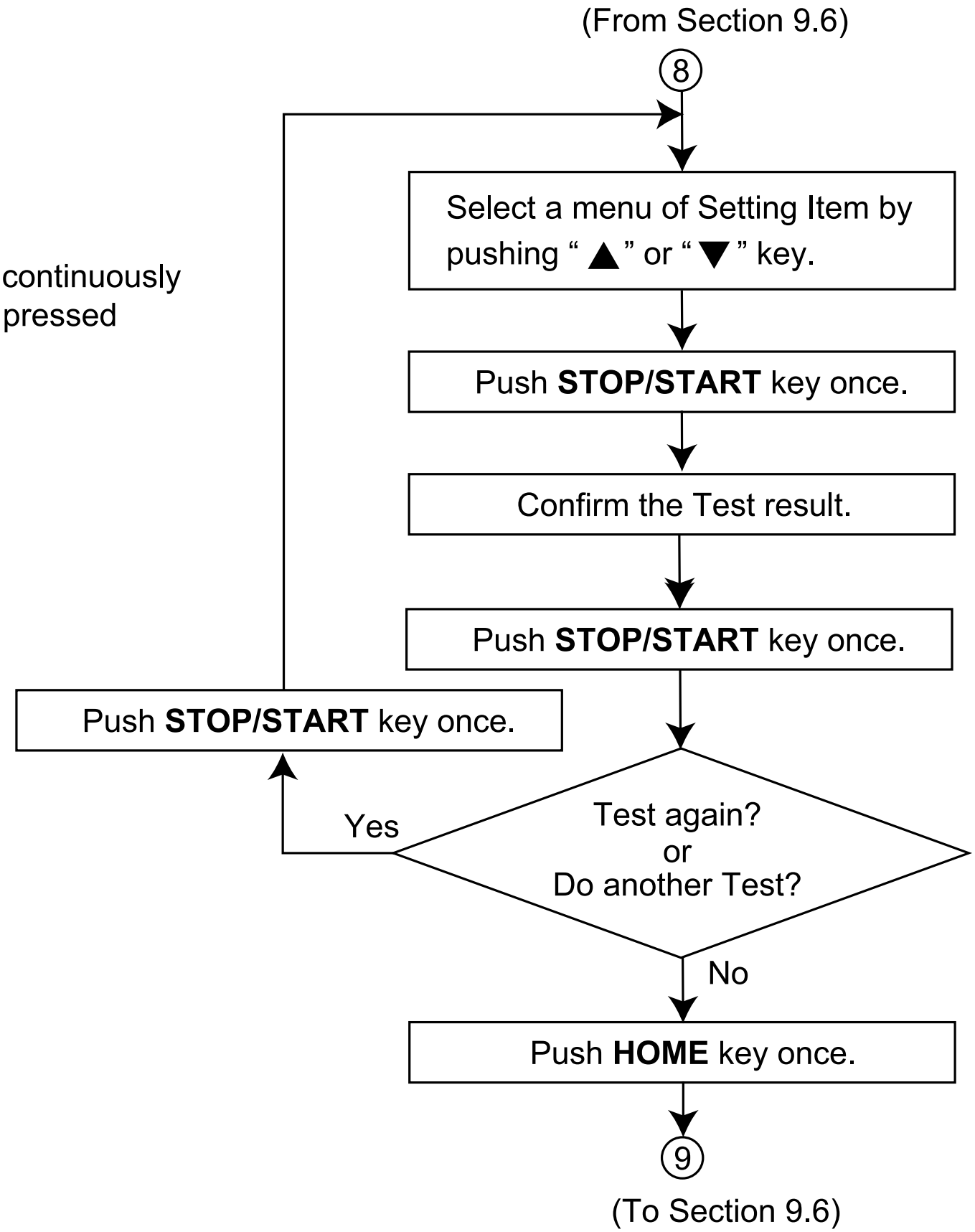
No

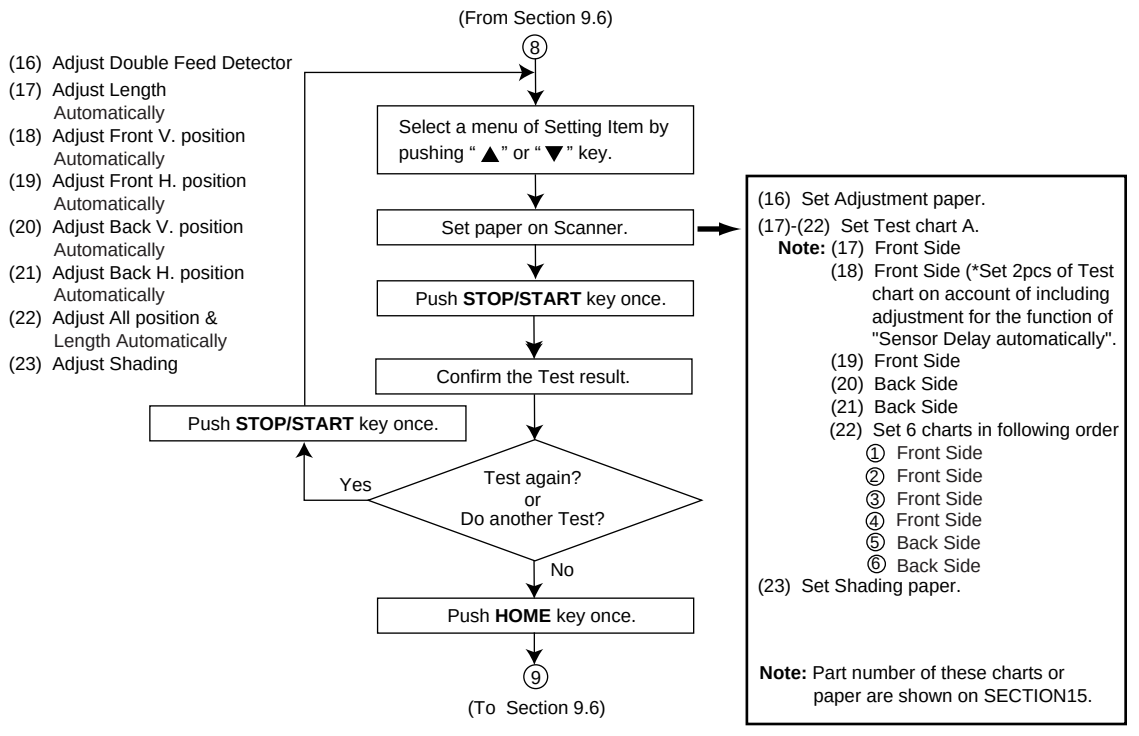
Push **HOME** key once.

(9)

(To Section 9.6)

* (7) Hopper Test
* (8) Conveyor Motor
* (9) Feed Motor
* (10) Aging
  * The Test will be repeated continuously until STOP/START key is pressed

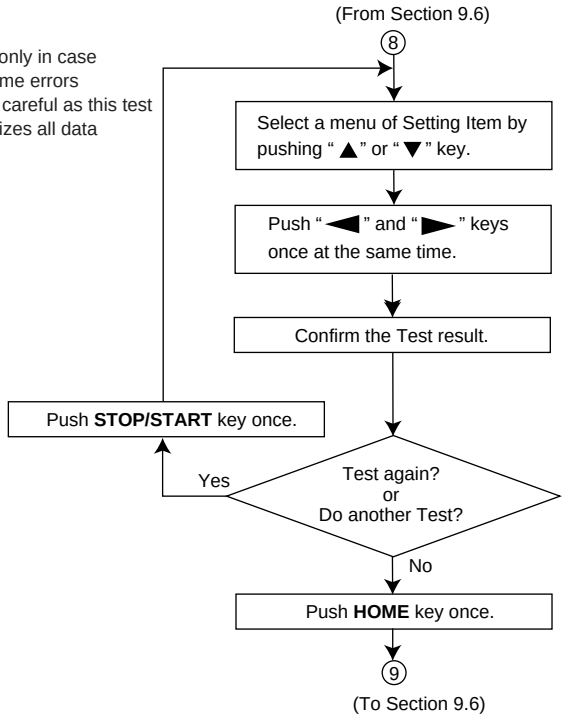



(From Section 9.6)
8
(16) Adjust Double Feed Detector
(17) Adjust Length Automatically
(18) Adjust Front V. position Automatically
(19) Adjust Front H. position Automatically
(20) Adjust Back V. position Automatically
(21) Adjust Back H. position Automatically
(22) Adjust All position & Length Automatically
(23) Adjust Shading
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Set paper on Scanner.
Push STOP/START key once.
Confirm the Test result.
Push STOP/START key once.
Yes
Test again? or Do another Test?
No
Push HOME key once.
9
(To Section 9.6)
(16) Set Adjustment paper.
(17)-(22) Set Test chart A.
Note: (17) Front Side
(18) Front Side (*Set 2pcs of Test chart on account of including adjustment for the function of "Sensor Delay automatically".
(19) Front Side
(20) Back Side
(21) Back Side
(22) Set 6 charts in following order
① Front Side
② Front Side
③ Front Side
④ Front Side
⑤ Back Side
⑥ Back Side
(23) Set Shading paper.
Note: Part number of these charts or paper are shown on SECTION15.

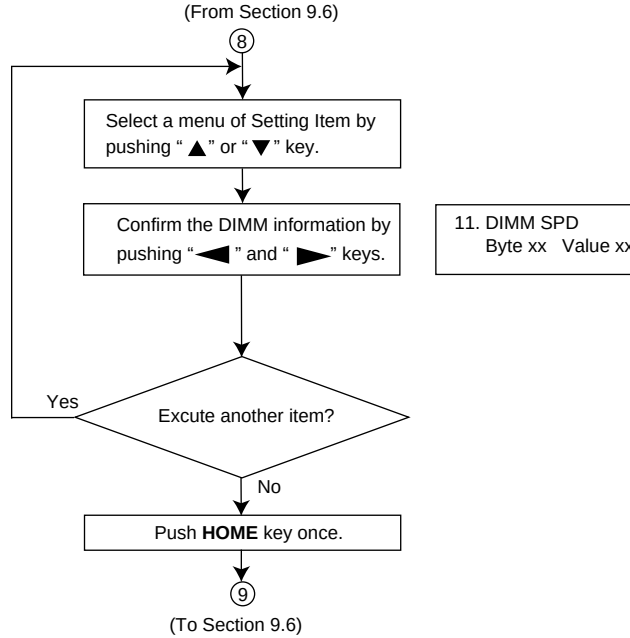
(14) Init. EEPROM

This test is used only in case EEPROM has some errors

* Please be very careful as this test operation initializes all data


(From Section 9.6)
8
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Push " ◀ " and " ▶ " keys once at the same time.
Execute initializing EEPROM.
Confirm the Test result.
Push **STOP/START** key once.
Yes
Test again?
or
Do another Test?
No
Push **HOME** key once.
9
(To Section 9.6)

(11) DIMM SPD (Serial Presence Detect) Information


(From Section 9.6)
8
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
Confirm the DIMM information by pushing " ◀ " and " ▶ " keys.
11. DIMM SPD
Byte xx Value xx
Excute another item?
Yes
No
Push **HOME** key once.
9
(To Section 9.6)

9.7 Error Code

Error Code Outline

ST1	Error Content
0x	Communication Error
1x	Paper Jam Error
2x	Door Open Error
3x	Mechanical Function Error
4x	Paper (Document) Sensor Error
5x	Scanning Error
6x	-
7x	-
8x	Hardware Error
9x	Hardware Error
Ax	-
Bx	-
Cx	-
Dx	-
Ex	-
Fx	-

Table 9-1

Note: (1) How to confirm Table 9-1
(ex.)
0x-shows Communication Error for 00 to 0A of ST1 bit.
(2) “-” in Error Content is not used.

Error Code

Classified Code	ST1	ST2	ST3	ST4	Content
U10	10	00	00	00	No Paper Error
U11	11	x	00	00	Paper Feed Jam (when paper does not reach Waiting Sensor): ST2 shows the rest numbers (approx.) of paper.
U12	12	x	00	00	Jam 1 (when paper does not reach Starting Position Sensor): ST2 shows the rest numbers (approx.) of paper.
U13	13	x	00	00	Jam 2 (when paper does not reach Paper Jam Sensor): ST2 shows the rest numbers (approx.) of paper.
U14	14	x	00	00	Jam 3 (when paper does not reach Ending (Front) Position Sensor): ST2 shows the rest numbers (approx.) of paper.
U15	15	x	00	00	Jam 4 (when paper does not reach Ending (Rear) Position Sensor): ST2 shows the rest numbers (approx.) of paper.
U16	16	x	00	00	Scan-out Jam 1 (when paper does not pass Ending (Front) Position Sensor): ST2 shows the rest numbers (approx.) of paper.
U17	17	x	00	00	Scan-out Jam 2 (when paper does not pass Ending (Rear) Position Sensor): ST2 shows the rest numbers (approx.) of paper.
U18	18	x	00	00	Paper remain in this scanner *(ST2: Paper position Information)
U20	19	00	00	00	Skew Error
U23	1C	x	x	00	Double Feed Error: ST2 shows the rest numbers (approx.) of paper (ST3: 0=Original at wait position 1=No original at wait position 2=Length 3=Supersonic sensor)
U30	20	00	00	00	Front Door Open
U32	22	00	00	00	Post Imprinter Door Open
U34	24	00	00	00	Pre Imprinter Door Open
F40	30	x	00	00	Hopper Drive Error (ST2: 0=up, 1=down)
F50	40	00	00	00	Waiting Sensor Error
F51	41	00	00	00	Staring Position Sensor Error
F52	42	00	00	00	Skew (R) Sensor Error
F53	43	00	00	00	Skew (L) Sensor Error
F54	44	00	00	00	Paper Jam Sensor Error
F55	45	00	00	00	Ending (Front) Position Sensor Error
F56	46	00	00	00	Ending (Rear) Position Sensor Error
F70	47	x	00	00	Size Detector Error (ST2: Size Detector Information)
F80	60	x	x		Double Feed Sensor Error (ST2: DA output value, STS3: AD input value)
F61	51	00	00	00	Front-side Black Level Error
F63	53	00	00	00	Back-side Black Level Error

Classified Code	ST1	ST2	ST3	ST4	Content
F68	54	x	x	00	Front-side Lamp Lighting Error (STS2: Lighting Value, STS3: AD input value)
F69	55	x	x	00	Back-side Lamp Lighting Error (STS2: Lighting Value, STS3: AD input value)
U41	58	00	00	00	Scanning Position Adjustment (Auto Mode) Error
F10	80	00	00	00	Program ROM Error on MAIN CONTROL Board
F11	81	x	x	x	Work RAM Error on MAIN CONTROL Board (ST2: Data, ST3,4: Address)
F17	87	00	00	00	On Board DRAM Error
F18	88	00	00	00	DIMM1 Error
F20	8A	x	x	x	Shading RAM Error (ST2: Data)(ST3,4: Address)
F21	8B	x	x	x	Line RAM Error (ST2: Data)(ST3,4: Address)
F26	90	x	x	x	Patch RAM Error
F29	93	x	x	x	Front Gamma RAM Error
F30	94	x	x	x	Back Gamma RAM Error
F31	95	x	x	x	Dither RAM Error
F34	98	00	00	00	EEPROM Error
F36	9A	00	00	00	GA Sensor Error
F37	9B	x	x	x	GA Image Error (ST2: “01” means Overrun error ST3: Front-side error code ST4: Back-side error code)
U50	A0	00	00	00	Not installed I/F Board
F80	60	x	x	00	Double-feed Detect Error (ST2: DA Value ST3: AD Input)

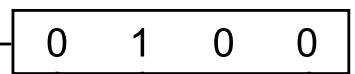
Table 9-2

Note*

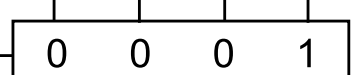
U18 Paper Position Information

When paper is on the sensor, the corresponding bit becomes “1”.

(Ex.) 1 8 4 1 0 0 0 0



Bit	Sensor Name
7	Paper Detector
6	Waiting Sensor
5	Starting Position Sensor
4	Paper Jam Sensor
3	Ending (Front) Position Sensor
2	Ending (Rear) Position Sensor
1	Skew (L) Sensor
0	Skew (R) Sensor



When ST2 value is 41 (H), the Waiting Sensor and the Skew (R) Sensor detect the paper.

10 TROUBLESHOOTING

Error Codes are listed in section 9.7 Error Code .

Test the check points in order from the first entry.

Error Code	Possible Cause	Check Point
F10	Program ROM Error on MAIN CONTROL Board	• Replace the Program ROM • Replace the MAIN CONTROL Board
F11	Work RAM Error on MAIN CONTROL Board	• Replace the MAIN CONTROL Board
F17	On Board RAM Error	• Replace the SCSI Board • Replace the MAIN CONTROL Board • Replace the MOTHER Board
F18	DIMM Error	• Replace the DIMM • Replace the SCSI Board • Replace the MOTHER Board • Replace the MAIN CONTROL Board
F20	Shading RAM Error	• Replace the MAIN CONTROL Board
F21	Line RAM Error	• Replace the MAIN CONTROL Board
F26	Patch RAM Error	• Replace the MAIN CONTROL Board
F29	Front Gamma RAM Error	• Replace the MAIN CONTROL Board
F30	Back Gamma RAM Error	• Replace the MAIN CONTROL Board
F31	Dither RAM Error	• Replace the MAIN CONTROL Board
F34	EEPROM Error	• Replace the MAIN CONTROL Board
F36	GA Sensor Error	• Replace the MAIN CONTROL Board
F37	GA Image Error	• Replace the MAIN CONTROL or SCSI Board
F40	Hopper Drive Error	• Check the Hopper Position Cable • Check the RELAY (LOWER) Board Cable • Check the Gears in the Hopper Drive • Replace the HOPPER POSITION Board • Replacethe RELAY (LOWER) Board • Replace the MOTHER Board • Replace the MAIN CONTROL Board • Replace the DRIVE Board
F50	Waiting Sensor Error	• Remove any dust on the LED on the WAITING LED Board, or on the light receptor on the WAITING SENSOR Board • Check that the LED on the WAITING LED Board, the light receptor on the WAITINGSENSOR Board and the slot location on the carrier board are properly aligned • Check the WAITING LED Board Cable • Check the RELAY (LOWER) Board Cable • Check the Waiting Sensor Cable • Checkthe RELAY (UPPER) Board Cable • Replace the WAITING LED Board • Replace the WAITING SENSOR Board • Replace the RELAY (LOWER) Board • Replace the RELAY (UPPER) Board • Replacethe MOTHER Board • Replace the MAIN CONTROL Board • Check the Starting Position Sensor Cable • Replace the STARTING POSITION SENSOR Board

F51	Starting Position Sensor Error	• Remove any dust on the LED on the STARTING POSITION LED Board, or on the light receptor on the STARTING POSITION SENSOR Board • Check that the LED on the STARTING POSITION LED Board,the light receptor on the STARTING POSITION SENSOR Board and the slot location on the carrier board are properly aligned • Check the STARTING POSITION LED Board Cable • Check the RELAY (LOWER) Board Cable • Checkthe Starting Position Sensor Cable • Check the RELAY (UPPER) Board Cable • Replace the STARTING POSITION LED Board • Replace the STARTING POSITION SENSOR Board • Replace the RELAY (LOWER) Board • Replace the RELAY (UPPER) Board • Replace the MOTHER Board • Replace the MAIN CONTROL Board
F52	Skew (R) Sensor Error	• Remove any dust on the LED on the WAITING LED Board, or on the light receptor on the WAITING SENSOR Board • Check that the LED on the WAITING LED Board, the light receptor on the WAITINGSENSOR Board and the slot location on the carrier board are properly aligned • Check the WAITING LED Board Cable • Check the RELAY (LOWER) Board Cable • Check the Waiting Sensor Cable • Checkthe RELAY (UPPER) Board Cable • Replace the WAITING LED Board • Replace the WAITING SENSOR Board • Replace the RELAY (LOWER) Board • Replace the RELAY (UPPER) Board • Replacethe MOTHER Board • Replace the MAIN CONTROL Board • Check the Starting Position Sensor Cable • Replace the STARTING POSITION SENSOR Board
F53	Skew (L) Sensor Error	• Remove any dust on the LED on the WAITING LED Board, or on the light receptor on the WAITING SENSOR Board • Check that the LED on the WAITING LED Board, the light receptor on the WAITINGSENSOR Board and the slot location on the carrier board are properly aligned • Check the WAITING LED Board Cable • Check the RELAY (LOWER) Board Cable • Check the Waiting Sensor Cable • Checkthe RELAY (UPPER) Board Cable • Replace the WAITING LED Board • Replace the WAITING SENSOR Board • Replace the RELAY (LOWER) Board • Replace the RELAY (UPPER) Board • Replacethe MOTHER Board • Replace the MAIN CONTROL Board • Check the Starting Position Sensor Cable • Replace the STARTING POSITION SENSOR Board
F54	Paper Jam Sensor Error	• Remove any dust on the LED on the PAPER JAM LED Board, or on the light receptor on the PAPER JAM SENSOR Board • Check that the LED on the PAPER JAM LED Board, the light receptor onthe PAPER JAM SENSOR Board and the slot location on the carrier board are properly aligned • Check the PAPER JAM LED Board Cable • Check the RELAY (LOWER) Board Cable • Check the Paper Jam Sensor Cable • Checkthe RELAY (UPPER) Board • Replace the ENDING (REAR) SENSOR Board Cable • Replace the POINTER Board Cable • Replace the PAPER JAM LED Board • Replace the ENDING (REAR) SENSOR Board • Replacethe POINTER Board • Replace the PAPER JAM SENSOR Board • Replace the RELAY (LOWER) Board • Replace the RELAY (UPPER) Board • Replace the MOTHER Board

		• Replace the MAINCONTROL Board
F55	Ending (Front) Position Sensor Error	• Remove any dust on the LED on the ENDING (FRONT) LED Board, or on the light receptor on the ENDING (FRONT) SENSOR Board • Check that the LED on the ENDING (FRONT) LED Board, the lightreceptor on the ENDING (FRONT) SENSOR Board and the slot location on the carrier board are properly aligned • Check the ENDING (FRONT) LED Board Cable • Check the Paper Jam Sensor Cable • Check the Ending(Front) Sensor Cable • Replace the RELAY (UPPER) Board Cable • Replace the ENDING (FRONT) LED Board • Replace the PAPER JAM SENSOR Board • Replace the ENDING (FRONT) SENSOR Board • Replacethe RELAY (UPPER) Board • Replace the MOTHER Board • Replace the MAIN CONTROL Board
F56	Ending (Rear) Position Sensor Error	• Remove any dust on the LED on the ENDING (REAR) LED Board, or on the light receptor on the ENDING (REAR) POSITION SENSOR Board • Check that the LED on the ENDING (REAR) LED Board,the light receptor on the ENDING (REAR) SENSOR Board and the slot location on the carrier board are properly aligned • Check the ENDING (REAR) LED Board Cable • Check the STARTING POSITION LED Board Cable • Checkthe RELAY (LOWER) Board Cable • Check the Ending (REAR) Sensor Cable • Check the POINTER DETECTOR Board Cable • Replace the ENDING (REAR) LED Board • Replace the STARTING POSITION LED Board • Replacethe ENDING (REAR) SENSOR Board • Replace the POINTER Board • Replace the RELAY (LOWER) Board • Replace the MOTHER Board • Replace the MAIN CONTROL Board
F61	Front Side Black Level Error	• Check the CIS (F) Cable • Replace the Front Side Image Sensor • Replace the MAIN CONTROL Board
F63	Back Side Black Level Error	• Check the CIS (B) Cable • Replace the Back Side Image Sensor • Replace the MAIN CONTROL Board
F68	Front Side Lamp Lighting Error	• Check the CIS (F) Cable • Check the CIS (F) LED Cable • Replace the Front Side Image Sensor • Replace the DRIVE Board • Replace theMOTHER Board • Replace the MAIN CONTROL Board
F69	Back Side Lamp Lighting Error	• Check the CIS (B) Cable • Check the CIS (B) LED Cable • Replace the Back Side Image Sensor • Replace the DRIVE Board • Replace theMOTHER Board • Replace the MAIN CONTROL Board
F70	Size Detector Error	• Check the Hopper Extension Tray Rack • Check the SIZE DETECTOR Board Cable • Check the HOPPER POSITION Board Cable • Check the RELAY (LOWER) Board Cable • Replacethe SIZE DETECTOR Board • Replace the HOPPER POSITION Board • Replace RELAY (LOWER) Board • Replace the MOTHER Board • Replace the MAIN CONTROL Board

F80	Double Feed Detector Error	• Remove any dust on the Supersonic Receiver on the WAITING LED Board, or on Supersonic Generator on the WAITING SENSOR Board • Check that the Supersonic Receiver on the WAITING LED Board,Supersonic Generator on the WAITING SENSOR Board • Check the WAITING LED Board Cable • Check the RELAY (LOWER) Board Cable • Check the Waiting Sensor Cable • Check the RELAY (UPPER) BoardCable • Replace the WAITING LED Board • Replace the WAITING SENSOR Board • Replace RELAY (LOWER) Board • Replace RELAY (UPPER) Board • Replace the MOTHER Board • Replacethe MAIN CONTROL Board • Check the Starting Position Sensor Cable • Replace the STARTING POSITION SENSOR Board

Note:

If neither LCD indication nor memory accessed from CPU work properly when initializing, LED6 to LED1 (D106 - D101) status can be available for troubleshooting.

Scanner CPU checks attached ROM and RAM on main control and on SCSI I/F board after power ON. It displays 6 red LED patterns on main board according to progress of checking. All LED OFF means main board check is finished normally. If some errorsare detected, some LED remains to light.

Main Board LED display ○ : Lighting, ● : Not Lighting LED 6 5 4 3 2 1	Error Detail	Check Point
	LCD No Response Error	Replace MAIN Control Board
	Flash-ROM check Error	Replace MAIN Control Board
	SRAM check Error	Replace MAIN Control Board
	Internal SRAM (Inside of CPU) check Error	Replace MAIN Control Board
	GA_SENSOR shading check Error	Replace MAIN Control Board
	GA_SENSOR line correction RAM check Error	Replace MAIN Control Board

	EEPROM check Error	Replace MAIN Control Board
	MAIN Board Error (Another model MAIN Board is supplied.)	Replace MAIN Control Board
	No Error	

Requirement after parts replacement

Following adjustments are required when print circuit board or part is replaced.

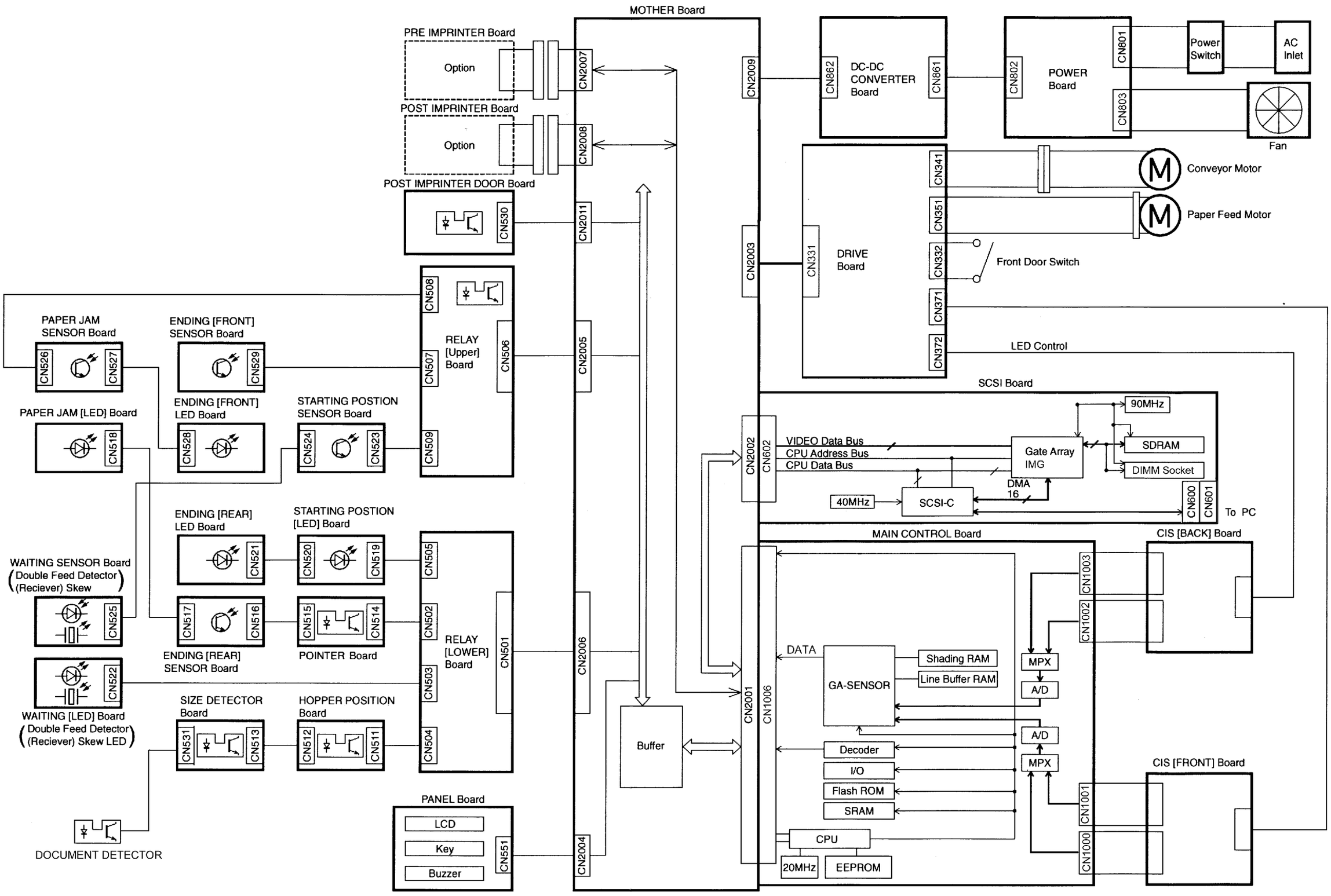
Replaced print circuit board or par t	Required adjustment
MAIN Control Board	Adjust Shading Adjust All Position & Length Automatically Adjust Double Feed Detector Gain
Flash ROM (It isn t Service parts.)	Adjust Shading
Front CIS	Adjust Shading Adjust All Position & Length Automatically or the following two Adjustments should be done. (1) Adjust Front H. Position Automatically (2) Adjust Front V. PositionAutomatically *When Adjust All Position & Length Automatically is done, Length, Back H. Position, and Back V. Position are adjusted again.
Back CIS	Adjust Shading Adjust All Position & Length Automatically or 2 Adjustments should be done. (1) Adjust Back H. Position Automatically (2) Adjust Back V. Position Automatically *When AdjustAll Position & Length Automatically is done, Length, Front H. Position, and Front V. Position are adjusted again.
Front & Back CIS	Adjust Shading Adjust All Position & Length Automatically or 4 Adjustments should be done. (1) Adjust Front H. Position Automatically (2) Adjust Front V. Position Automatically (3)Adjust Back H. Position Automatically (4) Adjust Back V. Position Automatically *When Adjust All Position & Length Automatically is done, Length is adjusted again.
Starting Position Sensor Board Starting Position LED Board	Adjust All Position & Length Automatically or 2 Adjustments should be done. (1) Adjust Front H. Position Automatically (2) Adjust Back V. Position Automatically
Waiting Sensor Board Waiting LED Board	Adjust Double Feed Detector Gain
Initialize EEPROM (It isn t Service Parts.)	• Adjust All Position & Length Automatically • Adjust Double Feed sensitivity

Disassemble and assemble which influence to scanning positions. EX) Disassemble and assemble of Sub Chassis (R), (L), Main Chassis (R), (L)	Adjust All Position & Length Automatically or 4 Adjustments should be done. (1) Adjust Front H. Position Automatically (2) Adjust Front V. Position Automatically (3) Adjust Back H.Position Automatically (4) Adjust Back V. Position Automatically *When Adjust All Position & Length Automatically is done, Length is adjusted again.
Driver Roller Conveyor Roller	Adjust All Position & Length Automatically or the following Adjustment should be done. (1) Adjust Length Automatically

MEMO

11 BLOCK DIAGRAM

MEMO


MOTHER Board
PRE IMPRINTER Board
Option
POST IMPRINTER Board
Option
POST IMPRINTER DOOR Board
CN2007
CN2008
CN2011
CN530
CN2009
CN862
DC-DC CONVERTER Board
CN861
CN802
POWER Board
CN801
CN803
Power Switch
AC Inlet
Fan
CN341
CN351
CN332
CN371
CN372
Conveyor Motor
Paper Feed Motor
Front Door Switch
CN2003
CN331
DRIVE Board
LED Control
SCSI Board
90MHz
SDRAM
DIMM Socket
VIDEO Data Bus
CPU Address Bus
CPU Data Bus
Gate Array IMG
DMA 16
40MHz
SCSI-C
CN2002
CN602
CN600
CN601
To PC
MAIN CONTROL Board
CIS [BACK] Board
CN1003
CN1002
DATA
GA-SENSOR
Shading RAM
Line Buffer RAM
MPX
A/D
Decoder
I/O
Flash ROM
SRAM
CPU
20MHz
EEPROM
CN2001
CN1006
Buffer
CIS [FRONT] Board
CN1001
CN1000
PAPER JAM SENSOR Board
CN526
CN527
ENDING [FRONT] SENSOR Board
CN529
PAPER JAM [LED] Board
CN518
ENDING [FRONT] LED Board
CN528
STARTING POSTION SENSOR Board
CN524
CN523
CN508
CN507
CN509
RELAY [Upper] Board
CN506
CN2005
ENDING [REAR] LED Board
CN521
STARTING POSTION [LED] Board
CN520
CN519
WAITING SENSOR Board (Double Feed Detector (Reciever) Skew)
CN525
CN517
CN516
CN515
CN514
ENDING [REAR] SENSOR Board
POINTER Board
CN522
WAITING [LED] Board (Double Feed Detector (Reciever) Skew LED)
SIZE DETECTOR Board
CN531
CN513
HOPPER POSITION Board
CN512
CN511
CN505
CN502
CN503
CN504
RELAY [LOWER] Board
CN501
CN2006
DOCUMENT DETECTOR
PANEL Board
LCD
Key
Buzzer
CN551
CN2004

12 EXPLANATION of CONNECTOR

CN1000 (MAIN) - (CIS [FRONT])

Pin No.	Signal Name	Description
1	CIS IN1	Contact Image Sensor Signal1
2	AGND	Analog Ground
3	+5V	+5V
4	-5V	-5V
5	CISSP1	Start Pulse1 for CIS
6	GND	Ground
7	CISCLK1	Clock1 for CIS
8	GND	Ground
9	-	

CN1001 (MAIN) - (CIS [FRONT])

Pin No.	Signal Name	Description
1	CIS IN2	Contact Image Sensor Signal2
2	AGND	Analog Ground
3	+5V	+5V
4	-5V	-5V
5	CISSP2	Start Pulse2 for CIS
6	GND	Ground
7	CISCLK2	Clock2 for CIS
8	GND	Ground
9	CIS Size DET1	CIS Size detect1
10	CIS Size DET2	CIS Size detect2
11	-	Ground

CN1002 (MAIN) - (CIS [BACK])

Pin No.	Signal Name	Description
1	CIS IN1	Contact Image Sensor Signal1
2	AGND	Analog Ground
3	+5V	+5V
4	-5V	-5V
5	CISSP1	Start Pulse1 for CIS
6	GND	Ground
7	CISCLK1	Clock1 for CIS
8	GND	Ground

CN1003 (MAIN) - (CIS [BACK])

Pin No.	Signal Name	Description
1	CIS IN2	Contact Image Sensor Signal2
2	AGND	Analog Ground
3	+5V	+5V
4	-5V	-5V
5	CISSP2	Start Pulse2 for CIS
6	GND	Ground
7	CISCLK2	Clock2 for CIS
8	GND	Ground
9	CIS Size DET1	CIS Size detect1
10	CIS Size DET2	CIS Size detect2

CN1006 (MAIN) - CN2001(MOTHER)

Pin No.	Signal Name	Description
1	AGND	Ground
2	AGND	Ground
3	CCD(EVEN)	Not Used
4	-5V	-5V(for Anarog)
5	CCD(ODD)	Not Used
6	AGND	Ground
7	CCD(ROG)	Not Used
8	GND	Ground
9	CCD(CLP)	Not Used
10	CCD(S/H)	Not Used
11	GND	Ground
12	CCD(RST)	Not Used
13	CCD(P2)	Not Used
14	CCD(P1)	Not Used
15	GND	Ground
16	CCDDET2	Not Used
17	+5VD	+5V(for Digital)
18	+5VA	+5V(for Analog)
19	CCDDET1	Not Used
20	+24V	+24V
21	+3VD	+3V(for Digital)
22	+3VD	+3V(for Digital)
23	+3VD	+3V(for Digital)
24	+3VD	+3V(for Digital)
25	+3VD	+3V(for Digital)
26	+3VD	+3V(for Digital)
27	+24V	+24V
28	GND	Ground
29	GND	Ground
30	GND	Ground
31	VSYNC	Page Enable
32	FEN	Front Line Enable
33	GND	Ground
34	BEN	Back Line Enable
35	VCLK	Not Used
36	RESERVE	Not Used
37	GND	Ground
38	FVD0	Front Data
39	FVD1	Front Data
40	FVD2	Front Data
41	FVD3	Front Data
42	FVD4	Front Data
43	FVD5	Front Data
44	FVD6	Front Data
45	GND	Ground
46	FVD7	Front Data
47	BVD0	Back Data
48	BVD1	Back Data
49	BVD2	Back Data
50	BVD3	Back Data
51	BVD4	Back Data
52	BVD5	Back Data
53	BVD6	Back Data
54	BVD7	Back Data
55	*CS(IMG)	Chip Select for GAIMG
56	*ACTTERM	Active Terminator Enable
57	GND	Ground
58	GND	Ground
59	TERMPC	Terminal Power Enable
60	CLK27M	Not Used
61	*IMGWAIT	Cpu Wait
62	TXD2(IF)	Not Used
63	RXD2(IF)	Not Used
64	RTS2(IF)	Not Used
65	CTS2(IF)	Not Used
66	*CS3(SCSI)	Chip Select for SCSI
67	*IRQ1(SCSI)	SCSI Interrupt Request
68	*IRQ(IMG)	GAIMG Interrupt Request
69	*CS	Chip Select for Conveyor Motor
70	*CS	Chip Select for Feed Motor
71	*CS	Not Used
72	*CS	Chip Select for I/F Board Detect

CN1006 (MAIN) - CN2001(MOTHER)(continued)

Pin No.	Signal Name	Description
73	*CS	Chip Select for Door Sensor
74	*CS	Chip Select for Key
75	*CS	Chip Select for Key
76	*CS	Chip Select for Size Sensor
77	GND	Ground
78	GND	Ground
79	*BUSEN	Bus Driver Enable
80	POWERCONT	Power Control
81	AN0	Double Feed
82	AN1	Idle Pos.
83	AN2	Feed
84	AN3	Exit(U-Turn)
85	AN4	Exit(Rear)
86	AN5	Post Imprinter Feed
87	+5VD	+5V(for Digital)
88	+5VD	+5V(for Digital)
89	GND	Ground
90	*ANALOG LD	Not Used
91	LEASCOUNT	Not Used
92	DALD	DAC Load(for sensor)
93	CLK40K	Ultra Sonic
94	DADATA	DAC Data
95	DACLK	DAC Clock
96	E(LCD)	LCD Enable
97	R/W(LCD)	LCD Read/Write Enable
98	RS(LCD)	LCD Resistor Select
99	BUZZER	Buzzer Pulse
100	LED(RD)	LED(Red)
101	LED(GR)	LED(Green)
102	*CPURD	CPU Read
103	*CPUHWR	CPU Write
104	*CPUAS	CPU Adress Strobe
105	GND	Ground
106	GND	Ground
107	*RESET	Reset
108	CPUA0	CPU Adress
109	CPUA1	CPU Adress
110	CPUA2	CPU Adress
111	CPUA3	CPU Adress
112	CPUA4	CPU Adress
113	CPUA5	CPU Adress
114	CPUA6	CPU Adress
115	CPUA7	CPU Adress
116	CPUA8	CPU Adress
117	+5VD	+5V(for Digital)
118	CPUD8	CPU Data
119	CPUD9	CPU Data
120	CPUD10	CPU Data
121	CPUD11	CPU Data
122	CPUD12	CPU Data
123	CPUD13	CPU Data
124	CPUD14	CPU Data
125	GND	Ground
126	CPUD15	CPU Data
127	*RESET(IMP)	Reset(for Imprinter)
128	*POSTIMP SP	Start Pulse for Post Imprinter
129	CTS1(POST)	CTS(for Post Imprinter)
130	RTS1(POST)	RTS(for Post Imprinter)
131	RXD1(POST)	RXD(for Post Imprinter)
132	TXD1(POST)	TXD(for Post Imprinter)
133	*PREIMP SP	Start Pulse for Pre Imprinter
134	CTS0(PRE)	CTS(for Pre Imprinter)
135	RTS0(PRE)	RTS(for Pre Imprinter)
136	RXD0(PRE)	RXD(for Pre Imprinter)
137	TXD0(PRE)	TXD(for Pre Imprinter)
138	DALD2	DAC Load(Motor Drive)
139	GND	Ground
140	GND	Ground

CN600(SCSI)

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	GND	Ground
7	GND	Ground
8	GND	Ground
9	GND	Ground
10	GND	Ground
11	GND	Ground
12	N.C.	N.C.
13	N.C.	N.C.
14	N.C.	N.C.
15	GND	Ground
16	GND	Ground
17	GND	Ground
18	GND	Ground
19	GND	Ground
20	GND	Ground
21	GND	Ground
22	GND	Ground
23	GND	Ground
24	GND	Ground
25	GND	Ground
26	*DB0	Data Bus0
27	*DB1	Data Bus1
28	*DB2	Data Bus2
29	*DB3	Data Bus3
30	*DB4	Data Bus4
31	*DB5	Data Bus5
32	*DB6	Data Bus6
33	*DB7	Data Bus7
34	*DBP	*DBP
35	GND	Ground
36	GND	Ground
37	N.C.	N.C.
38	TERMPWR	Term Power
39	N.C.	N.C.
40	GND	Ground
41	*ATN	*ATN
42	GND	Ground
43	*BSY	*BSY
44	*ACK	*ACK
45	*RST	*RST
46	*MSG	*MSG
47	*SEL	*SEL
48	*C/D	*C/D
49	*REQ	*REQ
50	*I/O	*I/O

CN601(SCSI)

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	GND	Ground
7	GND	Ground

CN601(SCSI) (continued)

Pin No.	Signal Name	Description
8	GND	Ground
9	GND	Ground
10	GND	Ground
11	GND	Ground
12	N.C.	N.C.
13	N.C.	N.C.
14	N.C.	N.C.
15	GND	Ground
16	GND	Ground
17	GND	Ground
18	GND	Ground
19	GND	Ground
20	GND	Ground
21	GND	Ground
22	GND	Ground
23	GND	Ground
24	GND	Ground
25	GND	Ground
26	*DB0	Data Bus0
27	*DB1	Data Bus1
28	*DB2	Data Bus2
29	*DB3	Data Bus3
30	*DB4	Data Bus4
31	*DB5	Data Bus5
32	*DB6	Data Bus6
33	*DB7	Data Bus7
34	*DBP	*DBP
35	GND	Ground
36	GND	Ground
37	N.C.	N.C.
38	TERMPWR	Term Power
39	N.C.	N.C.
40	GND	Ground
41	*ATN	*ATN
42	GND	Ground
43	*BSY	*BSY
44	*ACK	*ACK
45	*RST	*RST
46	*MSG	*MSG
47	*SEL	*SEL
48	*C/D	*C/D
49	*REQ	*REQ
50	*I/O	*I/O

CN602(SCSI) - CN2002(MOTHER)

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	*RESET	Reset
4	+3VD	+3V(for Digital)
5	+3VD	+3V(for Digital)
6	*CPUAS	CPU Adress Strobe
7	*CPUHWR	CPU Write
8	*CPURD	CPU Read
9	GND	Ground
10	GND	Ground
11	CPUD15	CPU Data
12	CPUD14	CPU Data
13	CPUD13	CPU Data
14	CPUD12	CPU Data
15	+5VD	+5V(for Digital)
16	+5VD	+5V(for Digital)
17	CPUD11	CPU Data
18	CPUD10	CPU Data
19	CPUD9	CPU Data
20	CPUD8	CPU Data
21	GND	Ground
22	GND	Ground
23	CPUA8	CPU Adress
24	CPUA7	CPU Adress
25	CPUA6	CPU Adress
26	CPUA5	CPU Adress
27	CPUA4	CPU Adress
28	CPUA3	CPU Adress
29	CPUA2	CPU Adress
30	CPUA1	CPU Adress
31	CPUA0	CPU Adress
32	+5VD	+5V(for Digital)
33	GND	Ground
34	GND	Ground
35	*VERCS	Chip Select for I/F Board Detect
36	*IRQ(IMG)	GAIMG Interrupt Request
37	*IRQ1(SCSI)	SCSI Interrupt Request
38	*CS3(SCSI)	Chip Select for SCSI
39	CTS2(IF)	Not Used
40	RTS2(IF)	Not Used
41	+3VD	+3V(for Digital)
42	RXD2(IF)	Not Used
43	TXD2(IF)	Not Used
44	*SCWAIT	CPU Wait
45	TERMPC	Terminal Power Control
46	*ACTTERM	Active Terminator Enable
47	*CS(IMG)	Chip Select for GAIMG
48	BVD7	Back Data
49	GND	Ground
50	GND	Ground
51	BVD6	Back Data
52	BVD5	Back Data
53	BVD4	Back Data
54	BVD3	Back Data
55	BVD2	Back Data
56	BVD1	Back Data
57	+3VD	+3V(for Digital)
58	BVD0	Back Data
59	FVD7	Front Data
60	FVD6	Front Data
61	FVD5	Front Data
62	GND	Ground
63	GND	Ground
64	FVD4	Front Data
65	FVD3	Front Data
66	FVD2	Front Data
67	FVD1	Front Data
68	FVD0	Front Data
69	+3VD	+3V(for Digital)
70	+3VD	+3V(for Digital)
71	GND	Ground
72	CLK27M	Not Used
73	FCLK	Not Used
74	BEN	Back Line Enable
75	FEN	Front Line Enable
76	GND	Ground
77	VSYNC	Page Enable
78	+5VD	+5V(for Digital)
79	GND	Ground
80	GND	Ground

CN2003(MOTHER) - CN331(DRIVE)

Pin No.	Signal Name	Description
1	LD0	Local Data Bus
2	*DEC2	Chip Select for Feed Motor
3	*DEC3	Not Used

CN2003(MOTHER) - CN331(DRIVE)

Pin No.	Signal Name	Description
4	SKEW	Sensor Comparater Level
5	DACDI	DAC Data
6	DACCLK	DAC Clock
7	DACLD	DAC Load
8	+38V	+38V
9	VCC	+5V
10	GND	Ground
11	GND	Ground
12	GND	Ground
13	GND	Ground
14	GND	Ground
15	GND	Ground
16	GND	Ground
17	+24V	+24V
18	+24V	+24V
19	+24V	+24V
20	+24V	+24V
21	LD1	Local Data Bus
22	*RESET	Reset
23	LD2	Local Data Bus
24	LD3	Local Data Bus
25	*DEC1	Chip Select for Conveyor Motor
26	LD4	Local Data Bus
27	LD5	Local Data Bus
28	LD6	Local Data Bus
29	LD7	Local Data Bus
30	VCC	+5V
31	gain1	Not Used
32	LAMP1	Not Used
33	GND	Ground
34	GND	Ground
35	GND	Ground
36	DOOR2	Door Sensor
37	DOOR1	Door Sensor
38	+24V	+24V
39	+24V	+24V
40	+24V	+24V

CN2004(MOTHER) - CN551(PANEL)

Pin No.	Signal Name	Description
1	LD0	Local Data Bus0
2	LD1	Local Data Bus1
3	LD2	Local Data Bus2
4	LD3	Local Data Bus3
5	LD4	Local Data Bus4
6	LD5	Local Data Bus5
7	LD6	Local Data Bus6
8	LD7	Local Data Bus7
9	+5VS	+5V
10	+5VS	+5V
11	+12VS	+12V
12	LCD RS	LCD Resistor Select
13	LCD RW	LCD Read/Write Enable
14	LCD EN	LCD Enable
15	BUZZER	Buzzer Pulse
16	KEY1	KEY1 Enable
17	KEY2	KEY2 Enable
18	LEDGR	LED(Green)
19	LEDRD	LED(Red)
20	GND	Ground
21	GND	Ground
22	GND	Ground

CN2005(MOTHER) - CN506(REALY[UPPER])

Pin No.	Signal Name	Description
1	CLK40K	Clock Input 40kHz
2	US_LEVEL	Ultrasonic Waves output level
3	+24VS	+24V
4	POINTERW	(Not Used)
5	GND	Ground
6	PREDOOR	Pre Imprinter Door Sensor input
7	+5VS	+5V
8	GND	Ground
9	+5VS	+5V
10	GND	Ground
11	SKEW LEVEL	Skew Sensor LEVEL control output
12	AN3(EXIT)	Ending (Front) Position Sensor input
13	SKEW L	Skew (L) Sensor input
14	AN5(JAM)	Paper JAM Sensor input
15	SKEW R	Skew (R) Sensor input
16	EXIT F LED	Ending (Front) Position LED
17	AN1(STBY)	Waiting Sensor input
18	AN2(FEED)	Starting Position sensor input

CN2006(MOTHER) - CN501(REALY[LOWER])

Pin No.	Signal Name	Description
1	DOC	Paper Detector
2	HOPPER	Hopper Position Sensor
3	SIZE1	Paper Size Sensor1
4	RETARD	Retard Position Sensor
5	+5V	+5V
6	+5V	+5V
7	SIZE2	Paper Size Sensor2
8	AN4	Alternate Output Data Bus4
9	SIZE3	Paper Size Sensor3
10	POINTER	Pointer Detector
11	GND	Ground
12	GND	Ground
13	GND	Ground
14	GND	Ground
15	SIZE4	Paper Size Sensor4
16	DAC DATA	DAC Data
17	SIZE5	Paper Size Sensor5
18	DAC CLK	DAC Clock
19	DAC7	DAC Output7
20	DACLD	DAC Load
21	DAC8	DAC Output8
22	-	N.C.
23	+12VS	+12V
24	AN0	Ultrasonic Waves Sensor Input

CN2007(MOTHER) - Pre Imprinter

Pin No.	Signal Name	Description
1	CTSN0	TXD0 for Pre Imprinter serial interface
2	TXDN0	RXD0 for Pre Imprinter serial interface
3	RTSN0	RTS0 for Pre Imprinter serial interface
4	RXDN0	CTS0 for Pre Imprinter serial interface
5	RESET	Reset
6	SP	Start Pulse
7	VCC	+5V
8	+38V	+38V
9	+38V	+38V
10	+12VS	+12V
11	GND	Ground
12	GND	Ground
13	GND	Ground
14	GND	Ground

CN2008(MOTHER) - Post Imprinter

Pin No.	Signal Name	Description
1	CTSN1	TXD1 for Post Imprinter serial interface
2	TXDN1	RXD1 for Post Imprinter serial interface
3	RTSN1	RTS1 for Post Imprinter serial interface
4	RXDN1	CTS1 for Pre Imprinter serial interface
5	RESET	Reset
6	SP	Start Signal
7	VCC	+5V
8	+38V	+38V

CN2008(MOTHER) - Post Imprinter(continued)

Pin No.	Signal Name	Description
9	+38V	+38V
10	+12VS	+12V
11	GND	Ground
12	GND	Ground

CN2009(MOTHER) - CN862(DC-DC CONVERTER)

Pin No.	Signal Name	Description
1	+24V(Switched)	+24V(Switched)
2	+24V(Switched)	+24V(Switched)
3	GND	Ground
4	GND	Ground
5	+5V	+5V(for Digital)
6	+5V	+5V(for Digital)
7	+24V	+24V
8	GND	Ground
9	+5VA	+5V(for Analog)
10	-5VA	-5V(for Analog)
11	STB	+24V Enable
12	+3.3VOVP	+3.3V Over Voltage Detection

CN2011(MOTHER) - CN530(POST IMPRINTER DOOR)

Pin No.	Signal Name	Description
1	+5VS	+5V
2	-	
3	POST DOOR	Post Imprinter Door Sensor
4	-	
5	GND	Ground

CN502(RELAY[LOWER]) - CN514(POINTER DETECTOR)

Pin No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	POINTER	Pointer Detector
4	EXIT(REAR)	Ending Position Sensor Input
5	JAM(LED)	JAM(LED) Output
6	+5V	+5V
7	-	N.C.

CN503(RELAY[LOWER]) - CN522(WAITING[LED])

Pin No.	Signal Name	Description
1	+5V	+5V
2	US1	Ultrasonic Waves Input
3	US2	Ground
4	STBY(LED)	Waiting LED
5	SKEWL(LED)	Skew (L) LED
6	SKEWR(LED)	Skew (R) LED
7	GND	Ground
8	GND	Ground

CN504(RELAY[LOWER]) - CN511(HOPPER POSITION)

Pin No.	Signal Name	Description
1	SIZE5	Paper Size Sensor5
2	GND	Ground
3	SIZE4	Paper Size Sensor4
4	GND	Ground
5	SIZE3	Paper Size Sensor3
6	+5V	+5V
7	SIZE2	Paper Size Sensor2
8	+5V	+5V
9	SIZE1	Paper Size Sensor1
10	LEVER	Retard Position Sensor
11	DOC	Paper Detector
12	HOPPER	Hopper Position Sensor

CN505(RELAY[LOWER]) - CN519(STARTING POSITION[LED])

Pin No.	Signal Name	Description
1	+5V	+5V
2	FEED(LED)	Starting Position LED Output
3	EXIT(REAR LED)	Ending Position (Rear) LED Output
4	GND	Ground
5	GND	Ground
6	GND	Ground

CN507(RELAY[UPPER]) - CN529(ENDING[FRONT])

Pin No.	Signal Name	Description
1	GND	Ground
2	AN3	Ending Position (Front) Sensor
3	-	N.C.
4	+5V	+5V
5	-	N.C.
6	-	N.C.

CN508(RELAY[UPPER]) - CN526(PAPER JAM SENSOR)

Pin No.	Signal Name	Description
1	GND	Ground
2	EXIT FRONT	Ending Position (Front) LED
3	AN5	Paper JAM Sensor Input
4	-	N.C.
5	+5V	+5V

CN509(RELAY[UPPER]) - CN523(STARTING POSITION)

Pin No.	Signal Name	Description
1	US2	Ground
2	US1	Ultrasonic Waves Output
3	SKEW R	Skew (R) Sensor Input
4	AN1	Waiting Sensor Input
5	SKEW L	Skew (L) Sensor Input
6	AN2	Alternate Output Data Bus2
7	+5V	+5V
8	GND	Ground

CN512(HOPPER POSITION) - CN513(SIZE DETECTOR)

Pin No.	Signal Name	Description
1	DOC	Paper Detector
2	SIZE3	Paper Size Sensor3
3	SIZE1	Paper Size Sensor1
4	SIZE4	Paper Size Sensor4
5	SIZE2	Paper Size Sensor2
6	SIZE5	Paper Size Sensor5
7	+5V	+5V
8	GND	Ground

CN515(POINTER DETECTOR) - CN516(ENDING[REAR])

Pin No.	Signal Name	Description
1	GND	Ground
2	+5V	+5V
3	EXIT R	Ending (Rear) Position Sensor
4	JAM LED	Paper JAM LED Output
5	-	N.C.
6	-	N.C.

CN517(ENDING[REAR]) - CN518(PAPER JAM[LED])

Pin No.	Signal Name	Description
1	GND	Ground
2	+5V	+5V
3	JAM(LED)	Paper JAM LED Output
4	-	N.C.
5	-	N.C.

CN520(STARTING POSITION[LED]) - CN521(ENDING [REAR])

Pin No.	Signal Name	Description
1	+5V	+5V
2	-	N.C.
3	-	N.C.
4	EXIT(REAR LED)	Ending (Rear) Position LED

CN524(STARTING POSITION) - CN525(WAITING)

Pin No.	Signal Name	Description
1	GND	Ground
2	+5V	+5V
3	US2	Ground
4	US1	Ultrasonic Waves Output
5	SKEWR	Skew (R) Sensor Input
6	AN1	Waiting Sensor Input
7	SKEWL	Skew (L) Sensor Input

CN527(JAM) - CN528(ENDING[FRONT LED])

Pin No.	Signal Name	Description
1	+5V	+5V
2	-	N.C.
3	-	N.C.
4	EXIT F(LED)	Ending (Front) Position LED

CN530(POST IMPRINTER DOOR) - CN2011(MOTHER)

Pin No.	Signal Name	Description
1	+5V	+5V
2	-	N.C.
3	POST DOOR	Post Imprinter Door Sensor
4	-	N.C.
5	GND	Ground

CN332(DRIVE) - DOOR SW

Pin No.	Signal Name	Description
1	+24V3	+24V
2	+24V2	+24V
3	+24V2	+24V
4	+24V1	+24V

CN341(DRIVE) - Conveyor Motor

Pin No.	Signal Name	Description
1	*CA	Conveyor Motor Phase-A(-)
2	CCOMA	+24V for Conveyor Motor
3	CA	Conveyor Motor Phase-A
4	*CB	Conveyor Motor Phase-B(-)
5	CCOMB	+24V for Conveyor Motor
6	CB	Conveyor Motor Phase-B

CN351(DRIVE) - Paper Feed Motor

Pin No.	Signal Name	Description
1	*FA	Feed Motor Phase-A(-)
2	-	
3	FCOMA	+24V for Feed Motor
4	FA	Feed Motor Phase-A
5	*FB	Feed Motor Phase-B
6	FCOMB	24V for Feed Motor
7	FB	Feed Motor Phase-B

CN371(DRIVE) - (CIS [FRONT])

Pin No.	Signal Name	Description
1	GREEN	Green
2	GND	Ground
3	RED	Red
4	-	

CN372(DRIVE) - (CIS [BACK])

Pin No.	Signal Name	Description
1	-	N.C.
2	GREEN	Green
3	GND	Ground
4	RED	Red
5	-	N.C.

CN802(POWER) - CN861(DC-DC COVERTER)

Pin No.	Signal Name	Description
1	-5V OVP	-5V Over Voltage Detection
2	+3.3V OVP	+3.3V Over Voltage Detection
3	+5V OVP	+5V Over Voltage Detection
4	GND	Ground
5	GND	Ground
6	GND	Ground
7	+24V(SWITCHED)	+24V(Switched)
8	+24V(SWITCHED)	+24V(Switched)
9	+24V	+24V
10	+24V	+24V
11	STB	+24V Enable

CN801(POWER) - Power Switch

Pin No.	Signal Name	Description
1	NEUTRAL	Neutral
2	-	N.C.
3	LIVE	Live

CN803(POWER) - Fan

Pin No.	Signal Name	Description
1	+24V OVP	+24V
2	-	
3	FAN	Fan

CN531(SIZE) - DOC Sensor

Pin No.	Signal Name	Description
1	+5V	+5V
2	DOC	DOC Sensor Output
3	GND	Ground
4	FG	Frame Ground

13 CIRCUIT BOARDS

TOP PREVIOUS NEXT

13.1 MAIN CONTROL Board (Component Side)

13.2 MAIN CONTROL Board (Solder Side)

13.3 SCSI Board (Component Side)

13.4 SCSI Board (Solder Side)

13.5 MOTHER Board

13.6 DRIVE Board (Component Side)

13.7 DRIVE Board (Solder Side)

13.8 PANEL Board

13.9 RELAY (LOWER) Board

13.10 RELAY (UPPER) Board

13.11 HOPPER POSITION Board

13.12 SIZE DETECTOR Board

13.13 WAITING (LED) Board

13.14 POINTER Board

13.15 ENDING (REAR) SENSOR Board

13.16 PAPER JAM (LED) Board

13.17 START POSITION (LED) Board

13.18 ENDING (REAR) LED Board

13.19 STARTNG POSITION SENSOR Board

13.20 WAITING SENSOR Board

13.21 ENDING (FRONT) SENSOR Board

13.22 PAPER JAM SENSOR Board

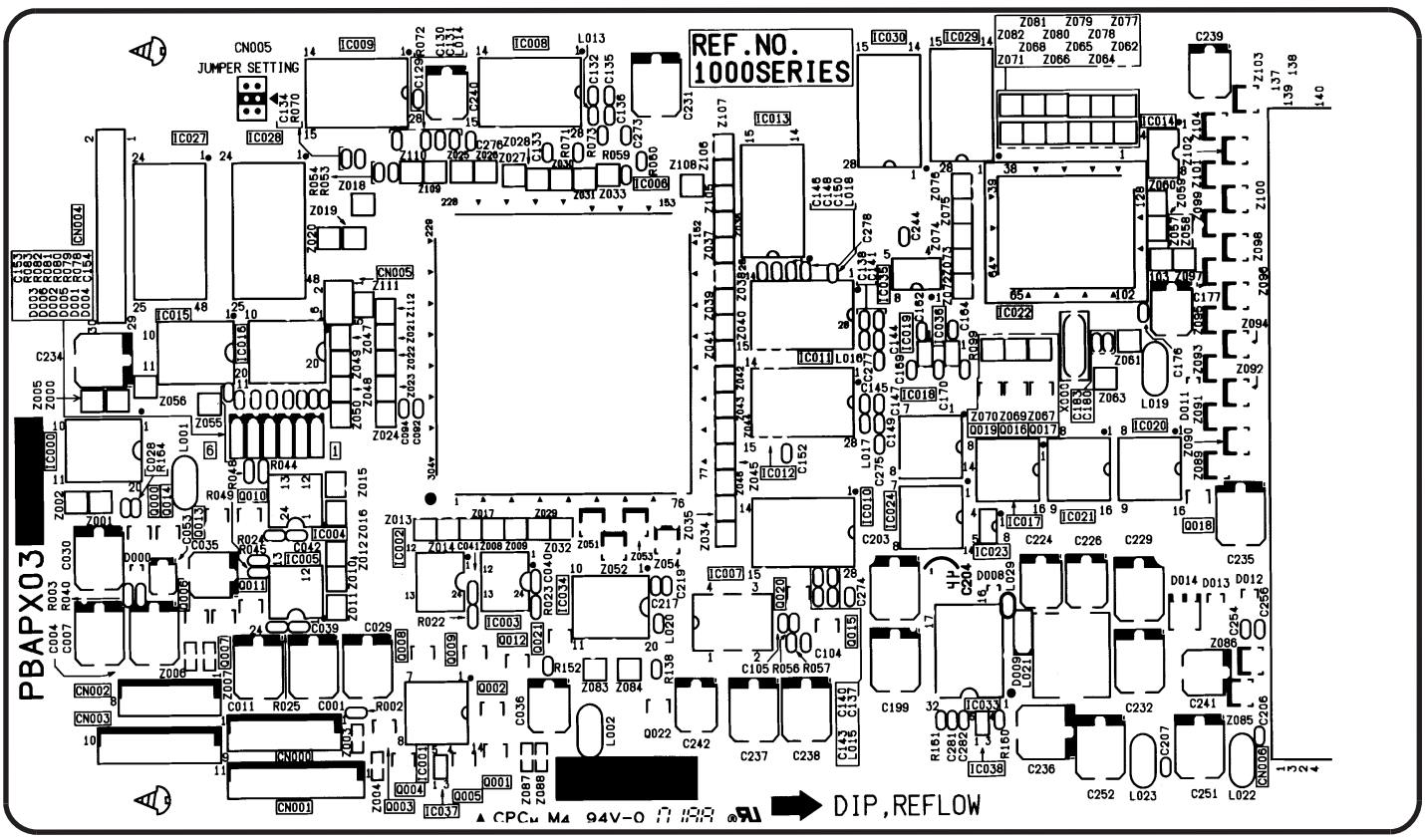
13.23 ENDING (FRONT) LED Board

13.24 POST IMPRINTER DOOR Board

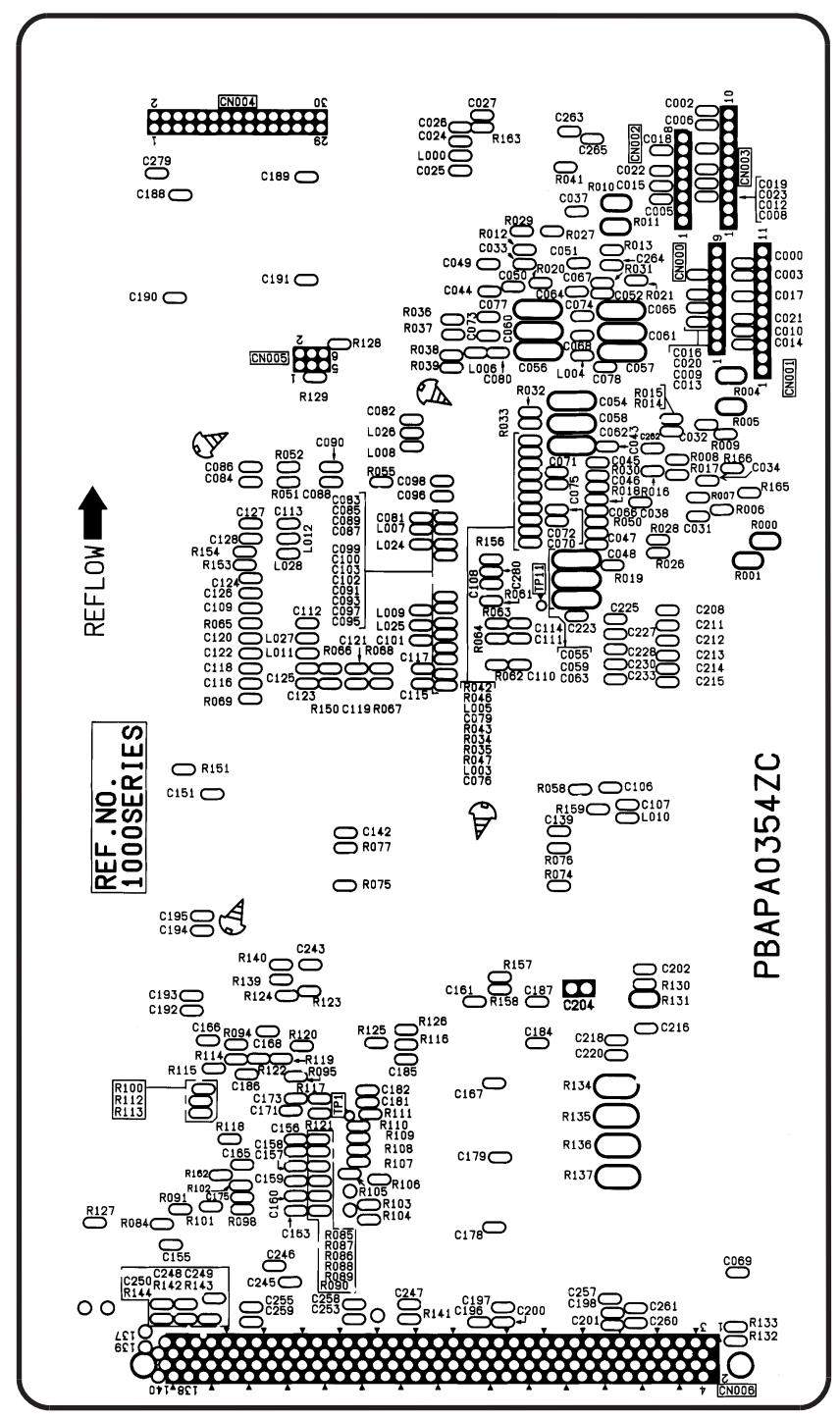
13.25 DC-DC CONVERTER Board

13.26 POWER Board

13.1 MAIN CONTROL Board (Component Side)


REF.NO.
1000SERIES
PBAPX03
CN005
JUMPER SETTING
DIP,REFLOW

13.2 MAIN CONTROL Board (Solder Side)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REF.NO.
1000SERIES
PBAPA0354ZC
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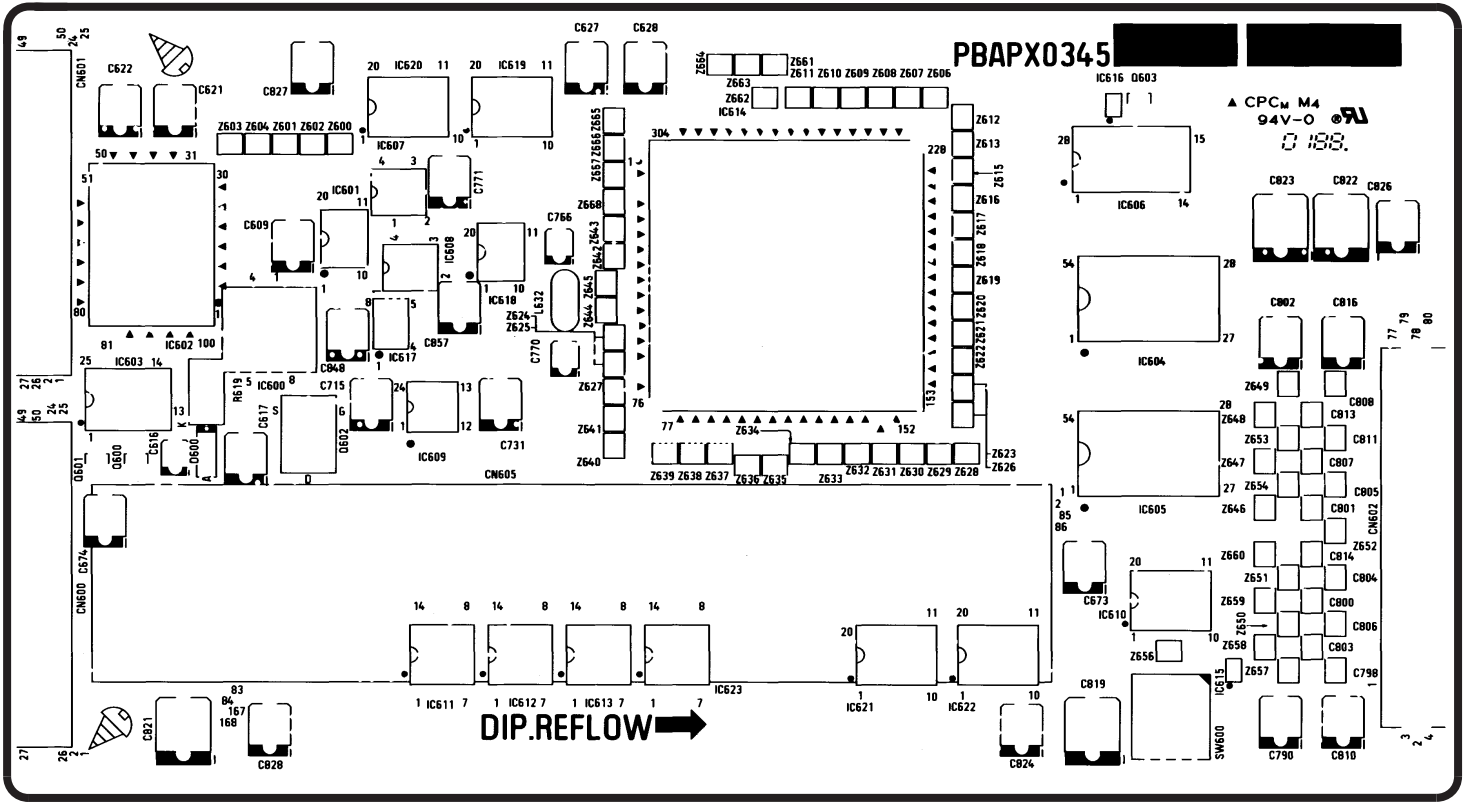
CN002
CN003
CN000
CN001
CN005
CN006
TP11
TP1
C204

13.3 SCSI Board (Component Side)


PBAPX0345
[redacted]
[redacted]
▲ CPCM M4
94V-0
0188.
DIP.REFLOW
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CN600
CN605
CN602
IC602
IC603
IC604
IC605
IC606
IC607
IC608
IC609
IC610
IC611
IC612
IC613
IC614
IC615
IC616
IC617
IC618
IC619
IC620
IC621
IC622
IC623
SW600
Q600
Q601
Q602
Q603
C600
C601
C602
C603
C604
C605
C606
C607
C608
C609
C610
C611
C615
C616
C617
C619
C621
C622
C623
C627
C628
C631
C632
C634
C635
C636
C637
C638
C639
C640
C641
C731
C766
C770
C771
C790
C798
C800
C801
C803
C804
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C806
C807
C808
C810
C811
C813
C814
C816
C819
C821
C822
C823
C824
C826
C827
C828
C848
C857
C673
C674
C715
R619
L632
Z600
Z601
Z602
Z603
Z604
Z605
Z606
Z607
Z608
Z609
Z610
Z611
Z612
Z613
Z614
Z615
Z616
Z617
Z618
Z619
Z620
Z621
Z622
Z623
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Z625
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Z629
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Z631
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Z633
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Z635
Z636
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Z656
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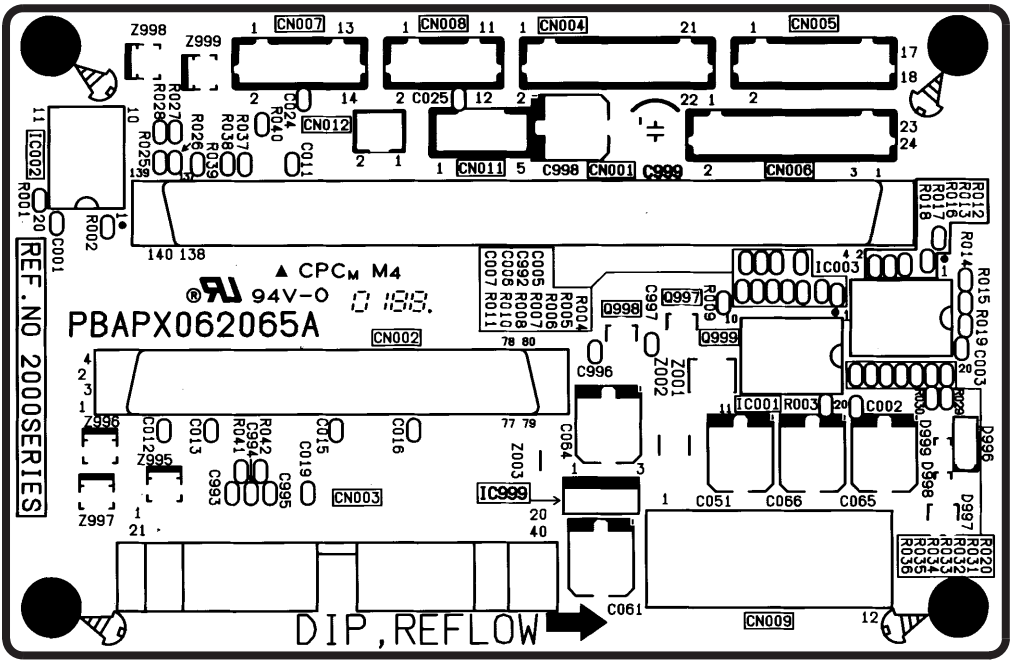
Z658
Z659
Z660
Z661
Z662
Z663
Z664
Z665
Z666
Z667
Z668

13.4 SCSI Board (Solder Side)

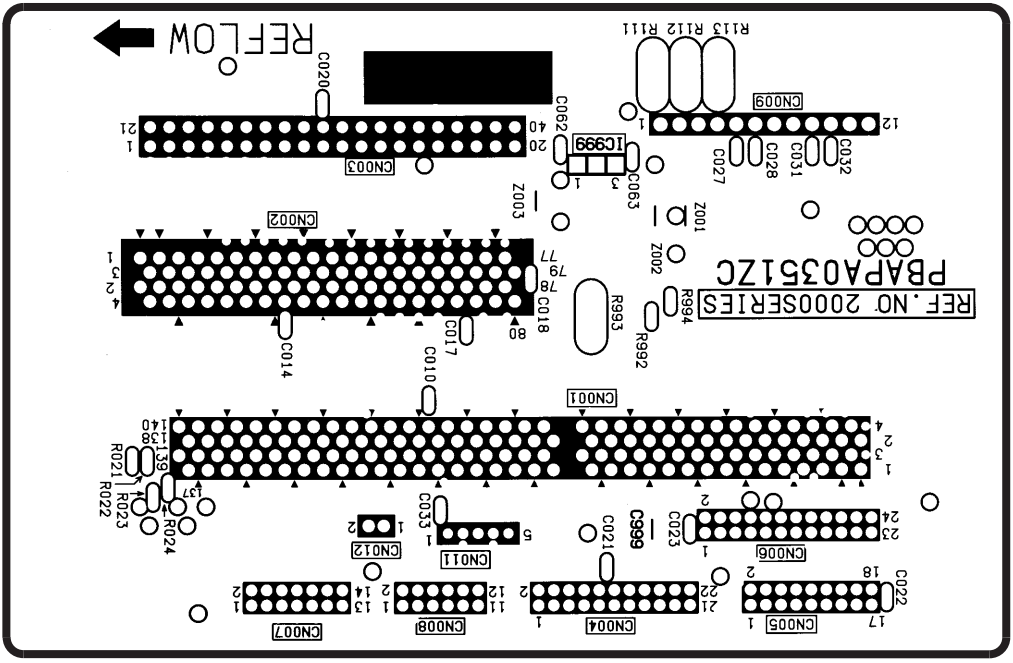
•PBAPA0345ZC
REFLOW

13.5 MOTHER Board

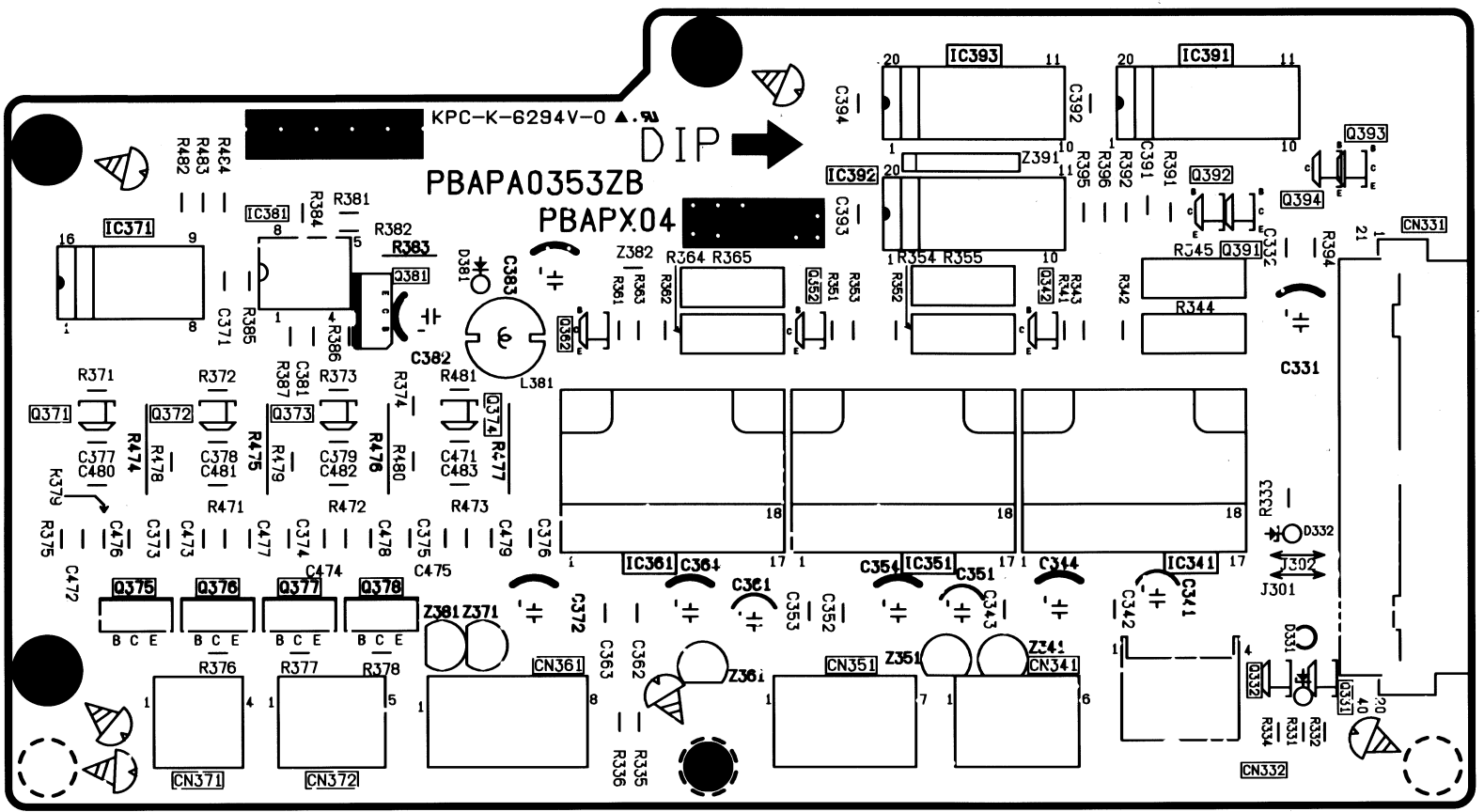
(Component Side)



(Solder Side)



13.6 DRIVE Board (Component Side)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DIP
PBAPA0353ZB
PBAPX04
IC393
IC391
IC392
IC371
IC381
IC361
IC351
IC341
Z391
Z382
Z381
Z371
Z361
Z351
Z341
L381
CN331
CN332
CN361
CN351
CN341
CN371
CN372
Q393
Q392
Q394
Q391
Q371
Q372
Q373
Q374
Q375
Q376
Q377
Q378
Q381
Q382
Q352
Q342
C331
C332
C333
C341
C342
C343
C344
C351
C352
C353
C354
C361
C362
C363
C364
C371
C372
C373
C374
C375
C376
C377
C378
C379
C471
C472
C473
C474
C475
C476
C477
C478
C479
C480
C481
C482
C483
R331
R332
R333
R334
R335
R336
R341
R342
R343
R344
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R353
R354
R355
R361
R362
R363
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R365
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R372
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R379
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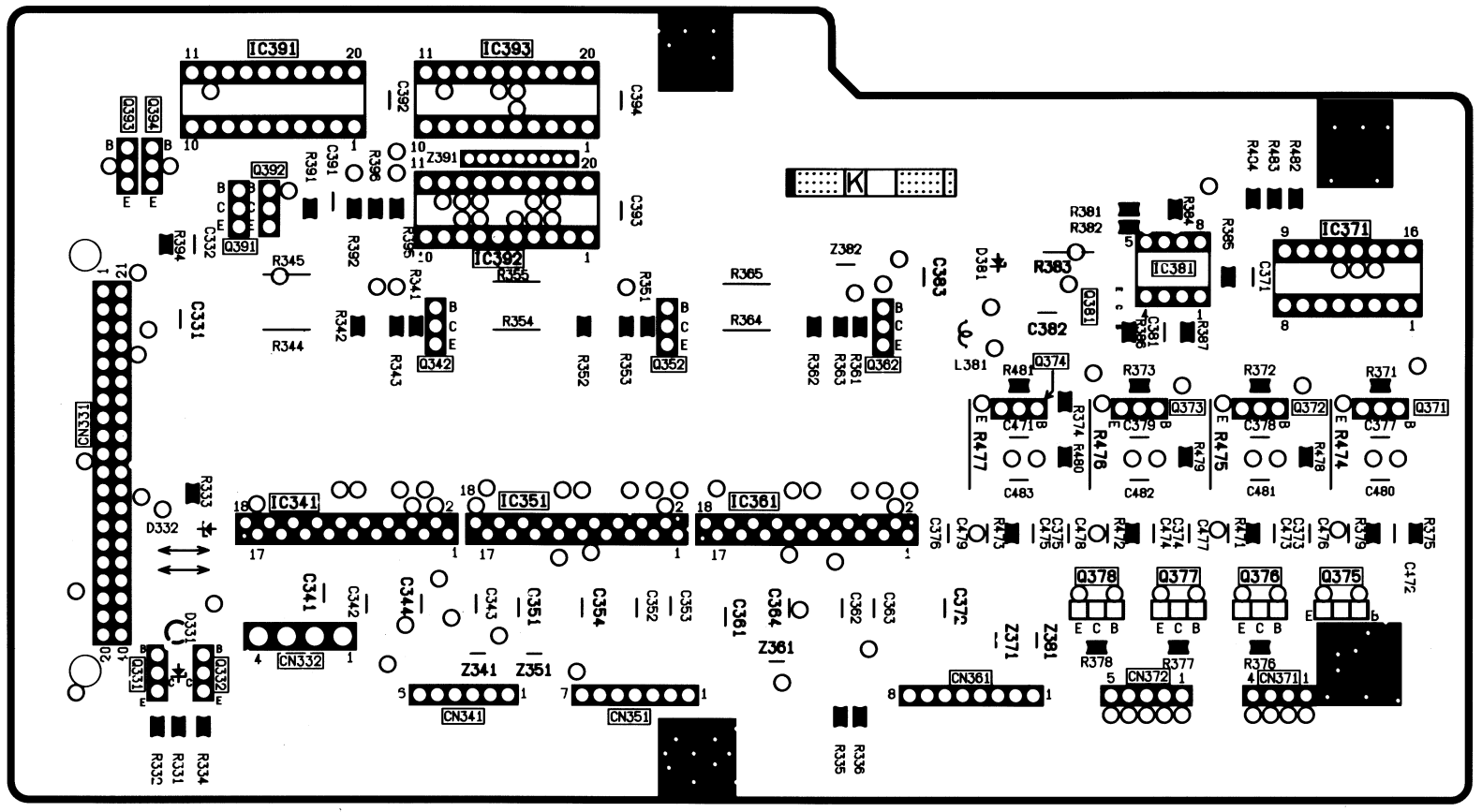
R384
R385
R386
R387
R391
R392
R393
R394
R395
R396
R471
R472
R473
R474
R475
R476
R477
R478
R479
R480
R481
R482
R483
R484
D331
D332
J301
J302
D381
C381
C382
C383

13.7 DRIVE Board (Solder Side)


IC391
IC393
IC392
Z391
IC381
IC371
IC341
IC351
IC361
CN331
CN332
CN341
CN351
CN361
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CN371
Q391
Q392
Q393
Q394
Q331
Q332
Q341
Q342
Q351
Q352
Q361
Q362
Q371
Q372
Q373
Q374
Q375
Q376
Q377
Q378
C331
C332
C341
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C351
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C471
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C481
C482
C483
R331
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R336
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R352
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R355
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R386
R387
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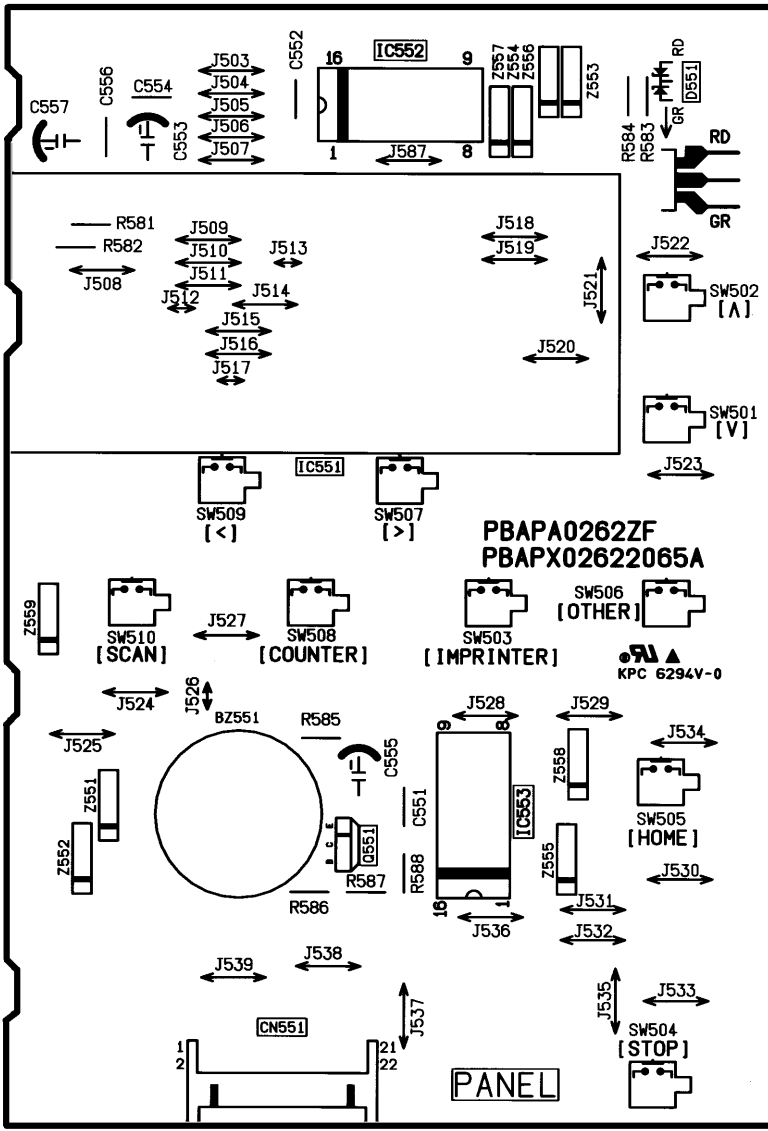
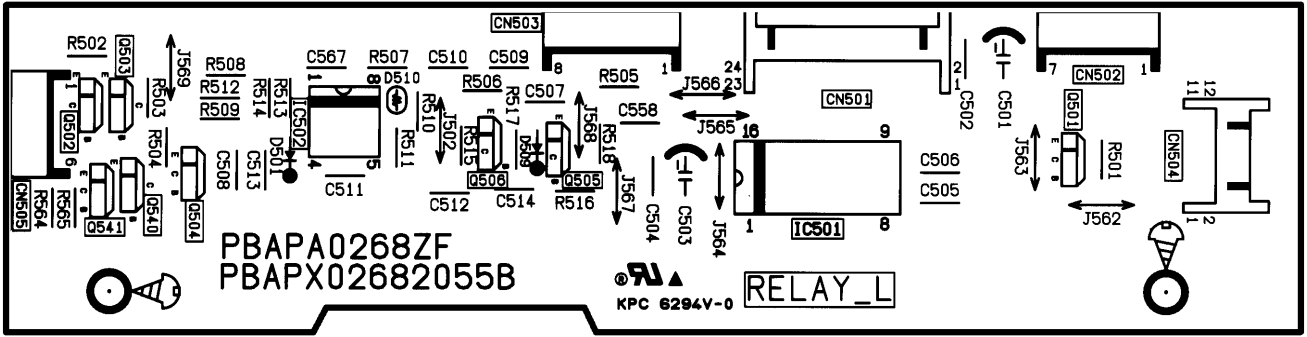
R395
R396
R404
R471
R472
R473
R474
R475
R476
R477
R478
R479
R480
R481
R482
R483
D331
D332
D381
L381
Z341
Z351
Z361
Z371
Z381
Z382

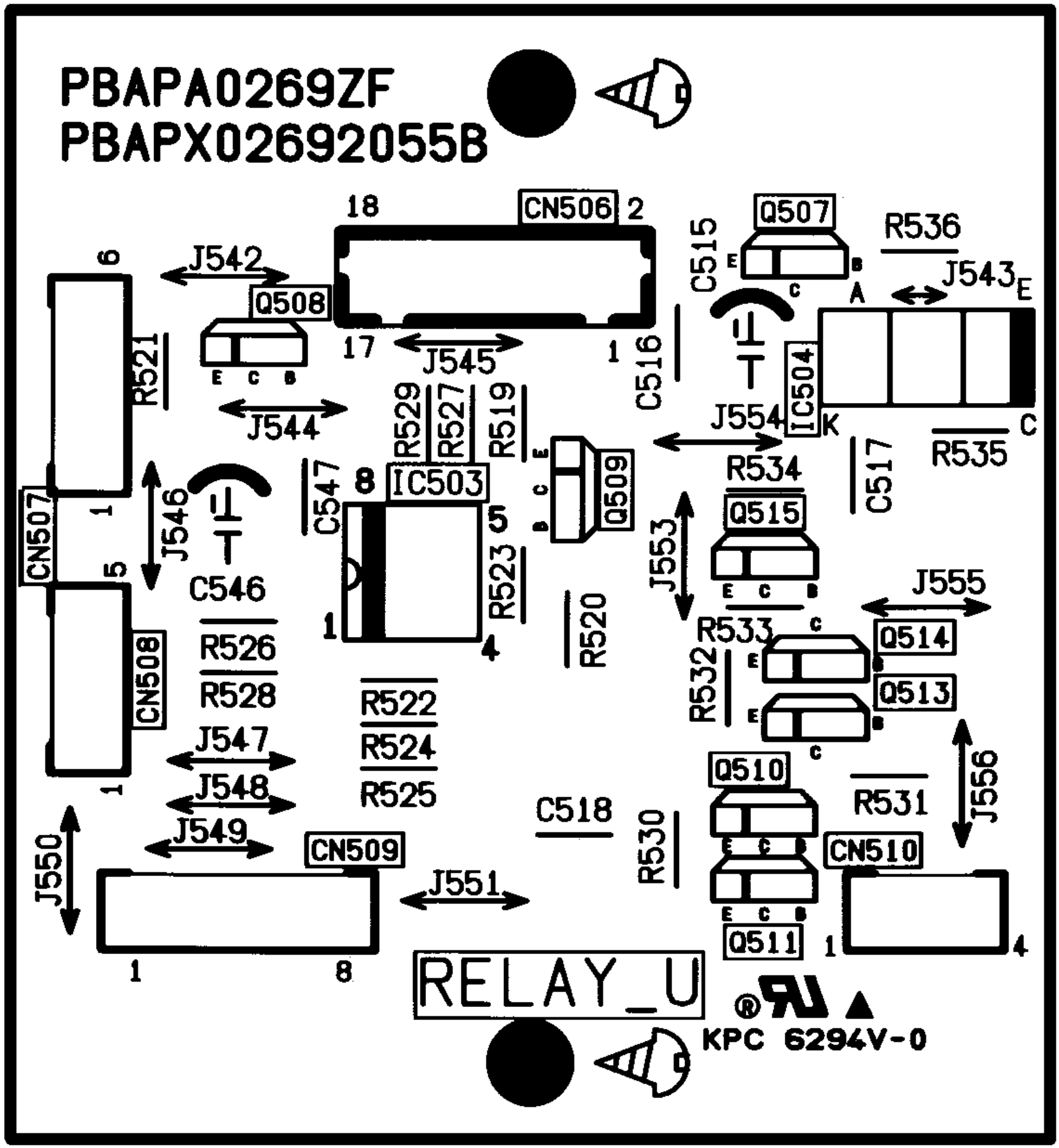
13.8 PANEL Board


C557
C556
C554
C553
J503
J504
J505
J506
J507
C552
16
IC552
9
1
J587
8
Z557
Z554
Z556
Z553
RD
D551
GR
R584
R583
RD
GR
R581
R582
J508
J509
J510
J511
J512
J513
J514
J515
J516
J517
J518
J519
J520
J521
J522
SW502
[∧]
SW501
[∨]
J523
IC551
SW509
[<]
SW507
[>]
PBAPA0262ZF
PBAPX02622065A
Z559
SW510
[SCAN]
J527
SW508
[COUNTER]
SW503
[IMPRINTER]
SW506
[OTHER]
KPC 6294V-0
J524
J526
J525
BZ551
R585
C555
C551
D551
R587
R588
R586
Z551
Z552
J528
9
8
IC553
16
1
J536
J529
Z558
J534
SW505
[HOME]
Z555
J530
J531
J532
J539
J538
J537
J535
J533
SW504
[STOP]
CN551
1
2
21
22
PANEL

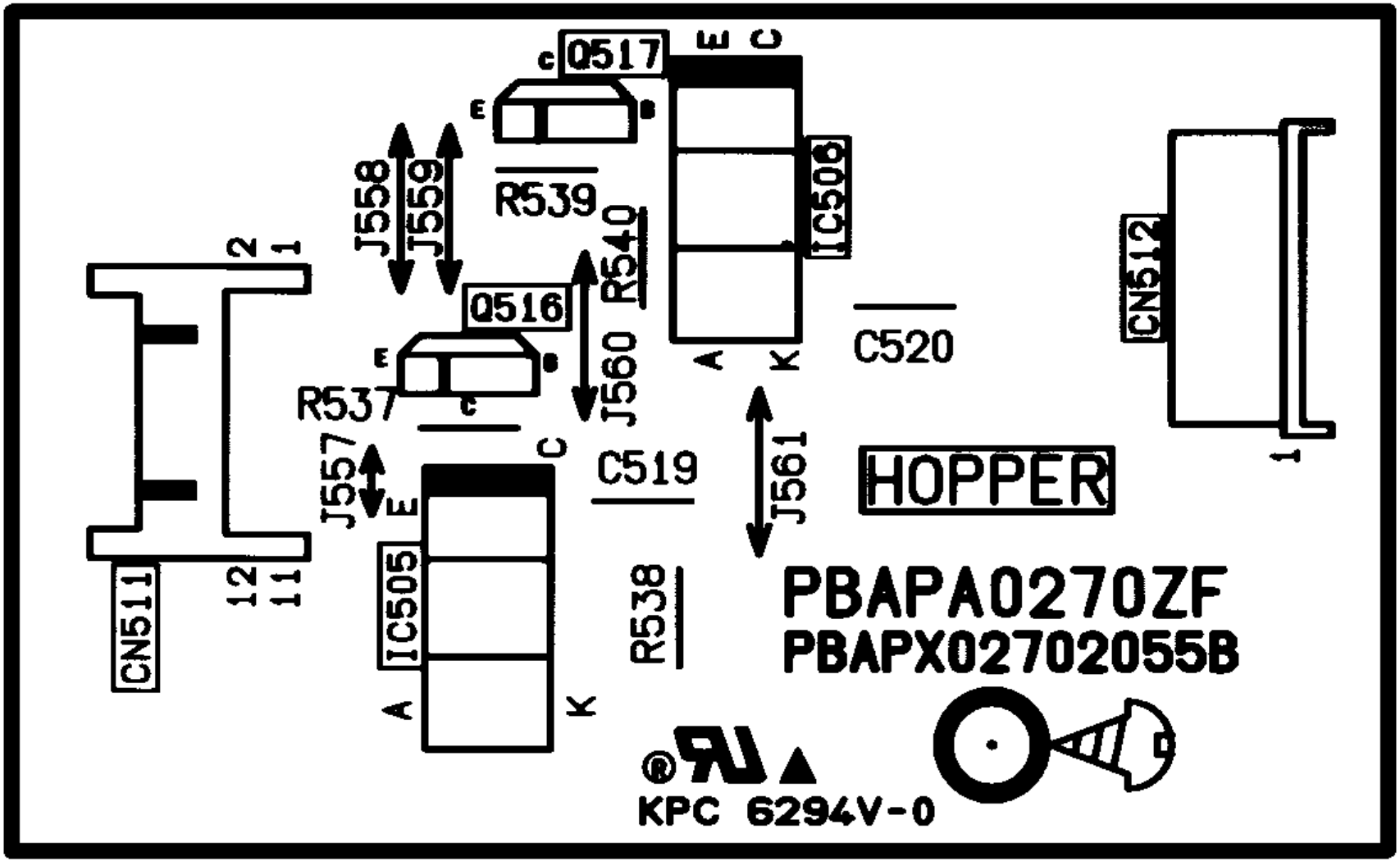
13.9 RELAY (LOWER) Board


R502
Q503
J569
R508
R512
R509
C567
R507
D510
C510
C509
CN503
R505
J566
CN501
C502
C501
CN502
Q501
J563
R501
CN504
J562
R503
Q502
R513
R514
IC502
D501
R510
J502
R506
R517
C507
J568
C558
J565
C506
C505
R504
C508
C513
C511
R511
R515
Q506
D509
R518
Q505
J567
C504
C503
J564
IC501
R505
R564
R565
Q541
Q540
Q504
C512
C514
R516
PBAPA0268ZF
PBAPX02682055B
KPC 6294V-0
RELAY_L

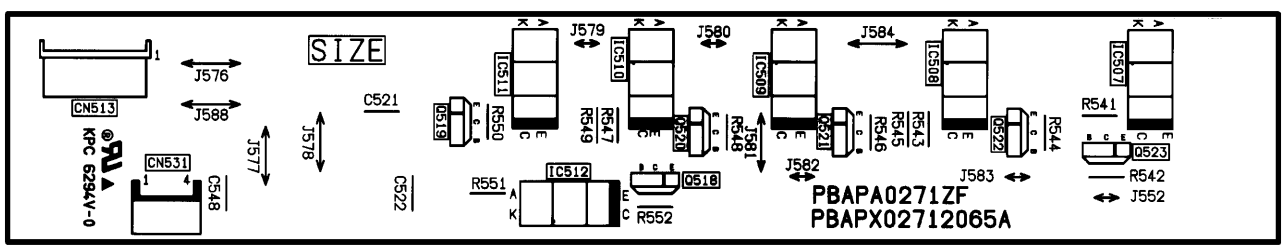
13.10 RELAY (UPPER) Board


PBAPA0269ZF
PBAPX02692055B
CN506
18
2
17
1
J542
J545
Q508
E C B
R521
6
1
CN507
5
1
CN508
J546
C546
R526
R528
J547
J548
J549
J550
CN509
1
8
J551
J544
R529
R527
R519
C547
IC503
8
5
1
4
R523
R520
Q509
B C E
R522
R524
R525
C518
C515
Q507
E B C
R536
J543
E
A
C516
IC504
K
C
J554
R535
C517
R534
Q515
E C B
J553
J555
R533
Q514
R532
Q513
J556
Q510
R531
R530
CN510
Q511
E C B
1
4
RELAY_U
KPC 6294V-0

13.11 HOPPER POSITION Board


Q517
E
C
B
IC506
A
K
J558
J559
R539
R540
Q516
J560
R537
C520
CN512
1
2
1
J557
C519
J561
HOPPER
IC505
C
E
B
A
K
12
11
CN511
R538
PBAPA0270ZF
PBAPX02702055B
KPC 6294V-0

13.12 SIZE DETECTOR Board


SIZE
CN513
CN531
KPC 6294V-0
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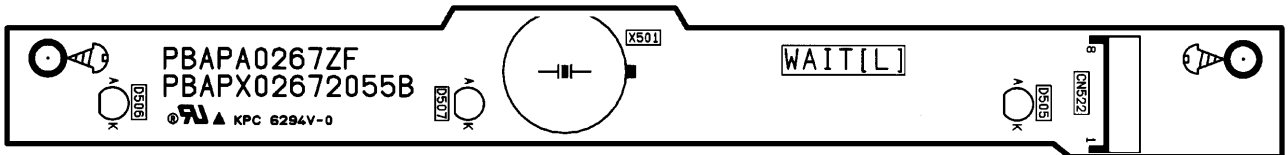
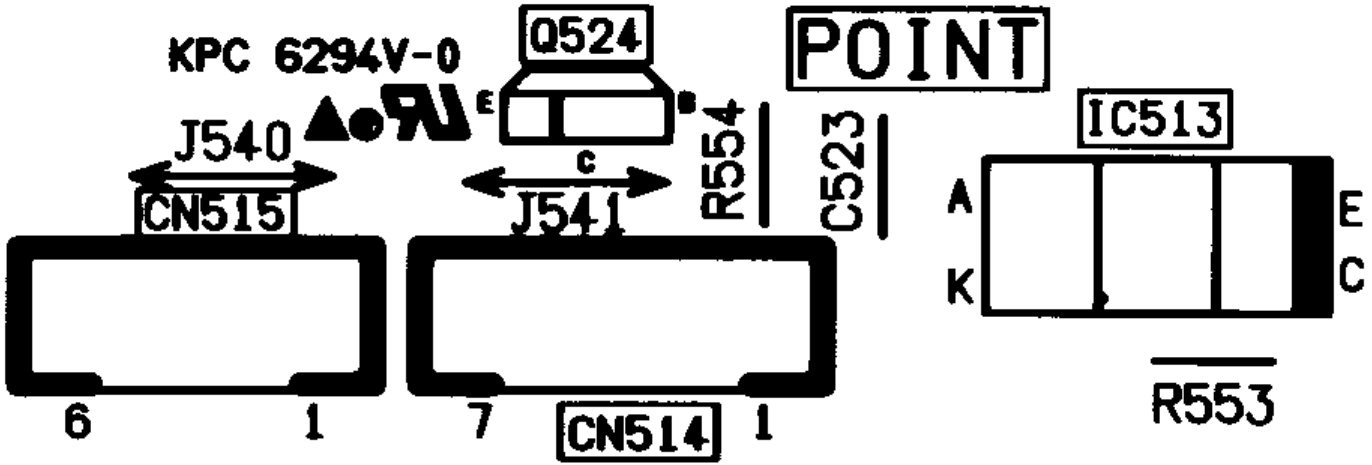
J588
J577
J578
C521
C522
C548
IC511
IC510
IC509
IC508
IC507
IC512
J579
J580
J584
R550
R549
R548
R546
R545
R544
R543
R541
R542
R551
R552
Q519
Q520
Q521
Q522
Q523
Q518
J581
J582
J583
J552
PBAPA0271ZF
PBAPX02712065A

13.13 WAITING (LED) Board

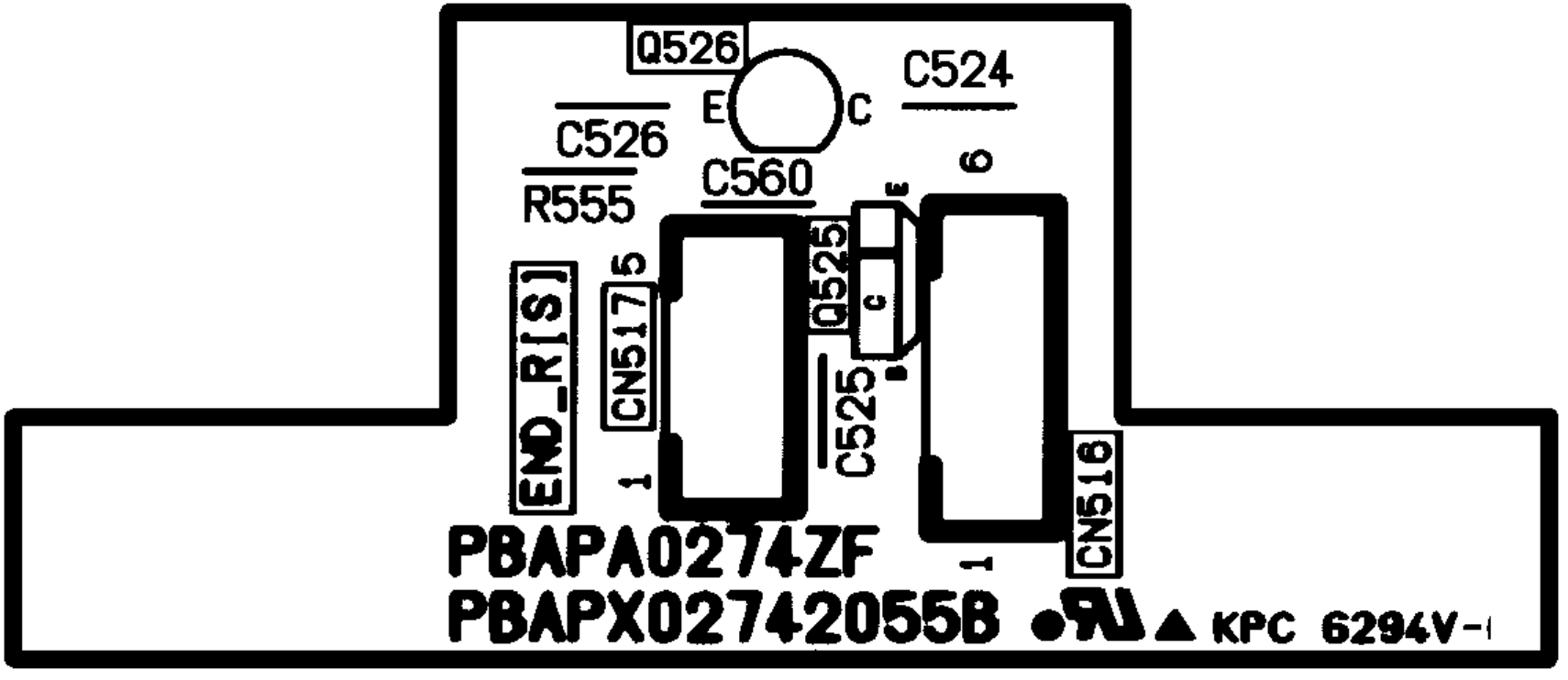

PBAPA0267ZF
PBAPX02672055B
KPC 6294V-0
D506
D507
X501
WAIT[L]
D505
CNF22
8
1

13.14 POINTER Board

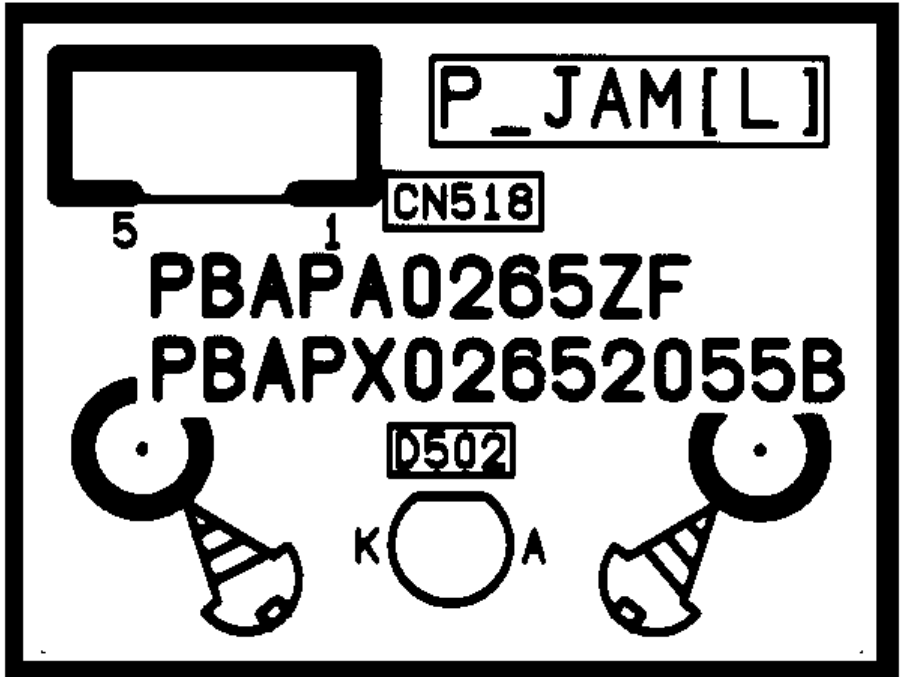


PBAPA0277ZF
PBAPX02772055B

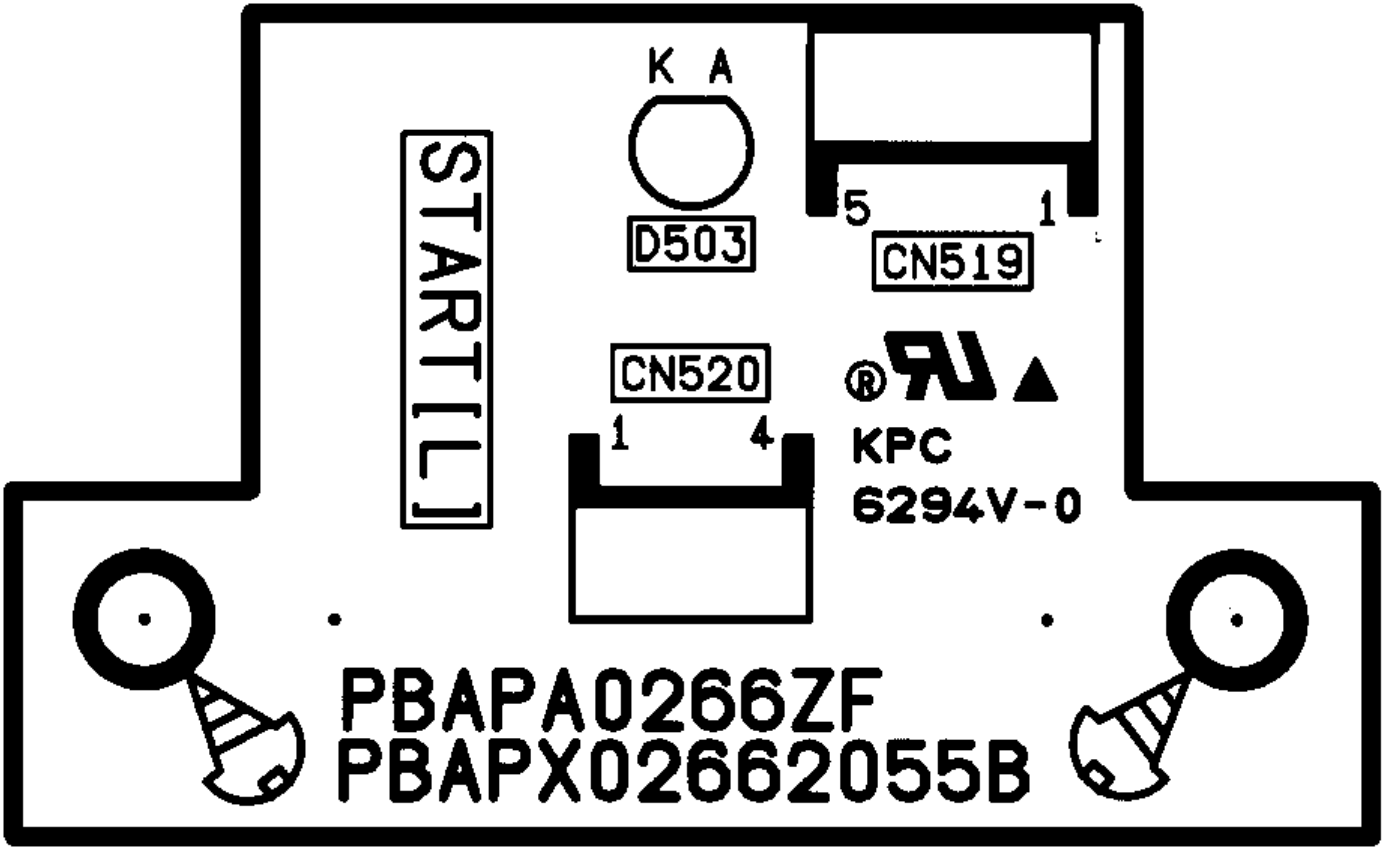
13.15 ENDING (REAR) SENSOR Board


Q526
E
C
C524
C526
R555
C560
6
END_R[S]
5
CN517
Q525
E
C
B
C525
1
1
CN518
PBAPA0274ZF
PBAPX027420055B
KPC 6294V-

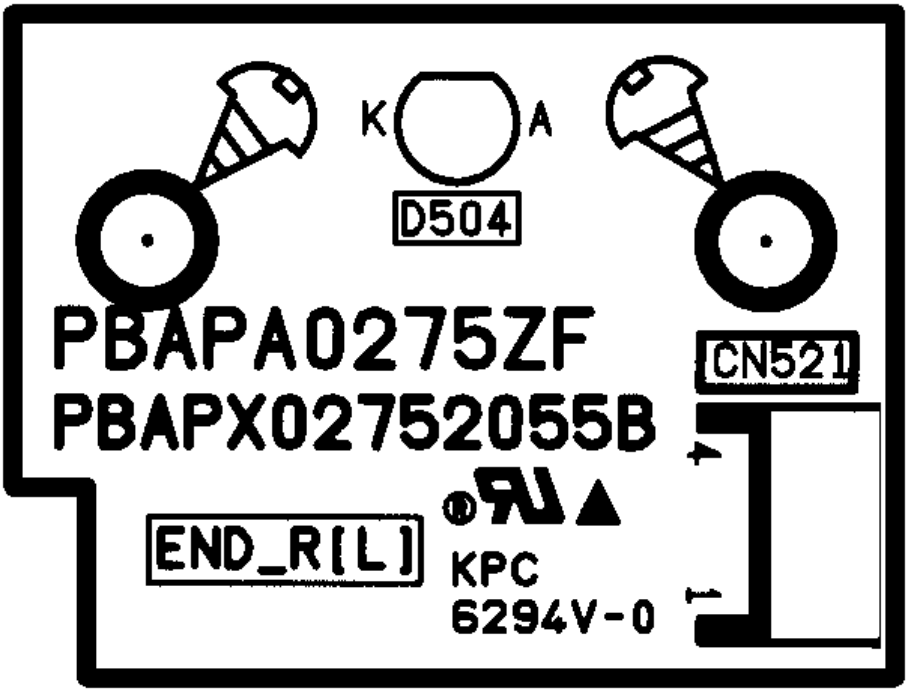
13.16 PAPER JAM (LED) Board


P_JAM[L]
CN518
5
1
PBAPA0265ZF
PBAPX02652055B
D502
K
A

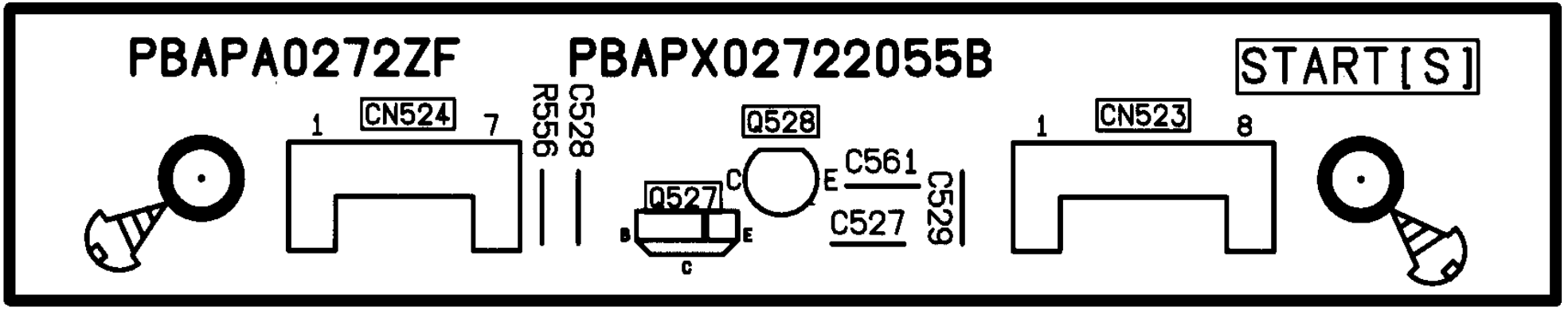
13.17 START POSITION (LED) Board


K A
D503
START[L]
5
1
CN519
CN520
1
4
KPC
6294V-0
PBAPA0266ZF
PBAPX02662055B

13.18 ENDING (REAR) LED Board


K
A
D504
PBAPA0275ZF
PBAPX02752055B
CN521
END_R[L]
KPC
6294V-0

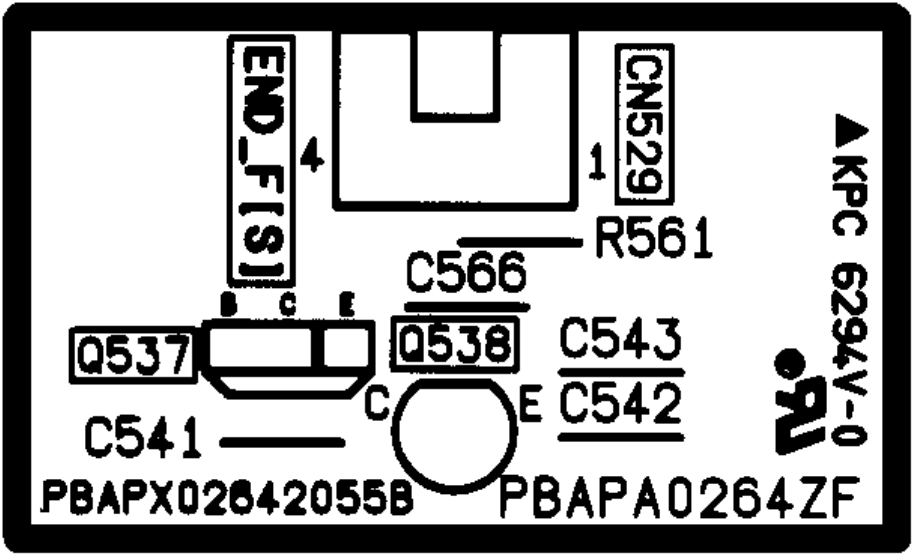
13.19 STARTNG POSITION SENSOR Board


PBAPA0272ZF
PBAPX02722055B
START[S]
CN524
1
7
R556
C528
Q528
C
E
C561
C527
C529
Q527
B
E
C
CN523
1
8

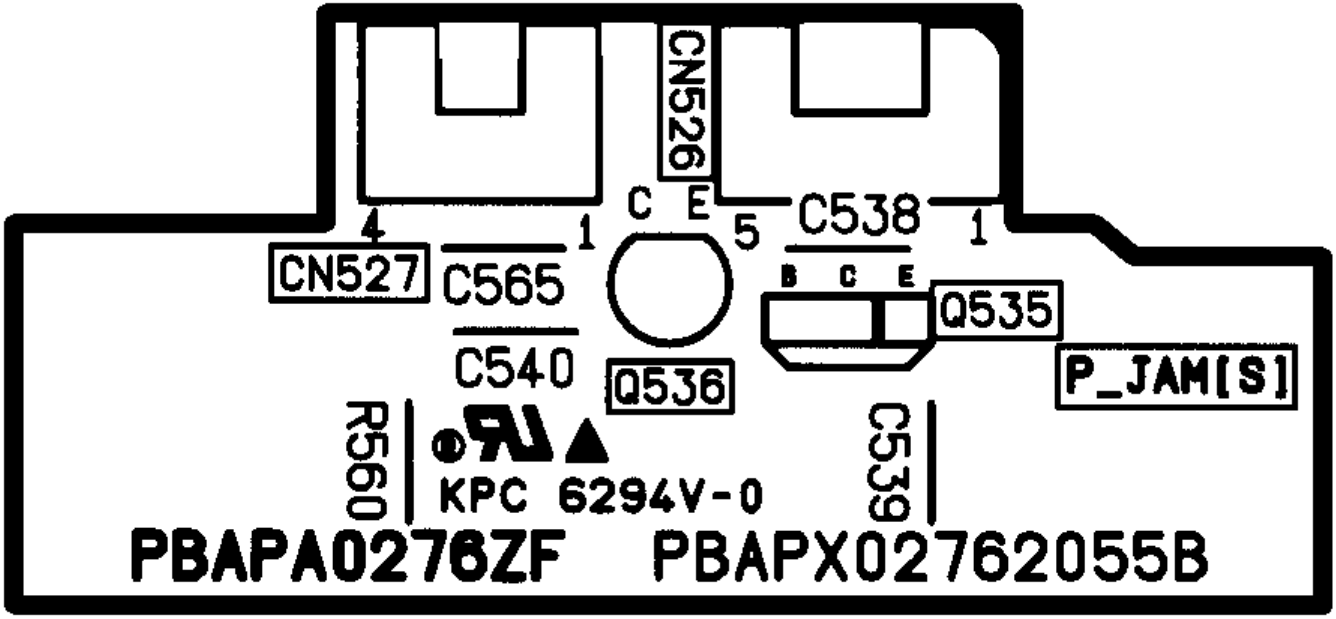
13.20 WAITING SENSOR Board

WAIT[S]
PBAPX02732055B
PBAPA0273ZF
KPC
6294V-0
CN529
C545
C564
Q534
J570
C536
Q533
J571
R559
C537
C530
C531
J572
Q529
J573
R557
C532
X502
C562
Q530
C533
C534
Q531
J574
R558
C535
J575
C563
Q532

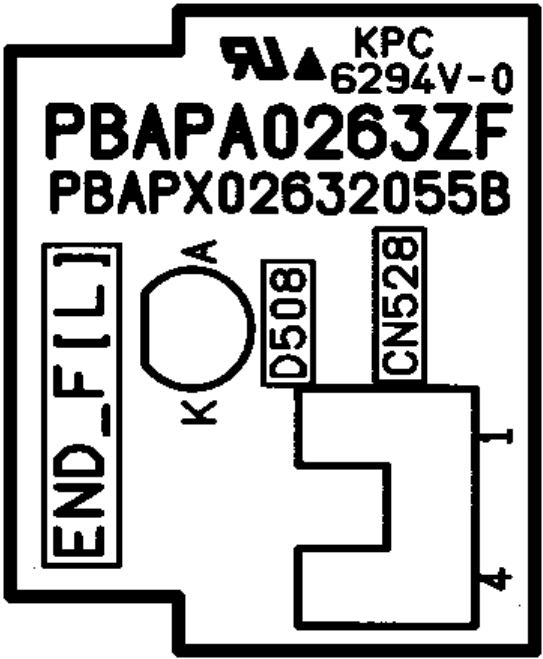
13.21 ENDING (FRONT) SENSOR Board


END_FIS1
4
CN529
1
R561
C566
B C E
Q537
Q538
C543
C542
C
E
C541
▲KPC 629AV-0
PBAPX026420055B
PBAPA0264ZF

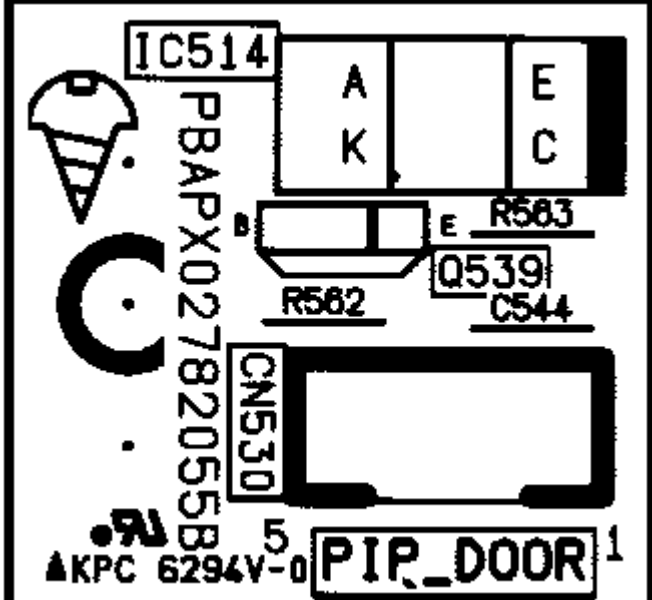
13.22 PAPER JAM SENSOR Board


CN526
C E
C538
5
1
4
1
CN527
C565
B C E
Q535
C540
Q536
P_JAM[S]
R560
KPC 6294V-0
C539
PBAPA0276ZF
PBAPX02762055B

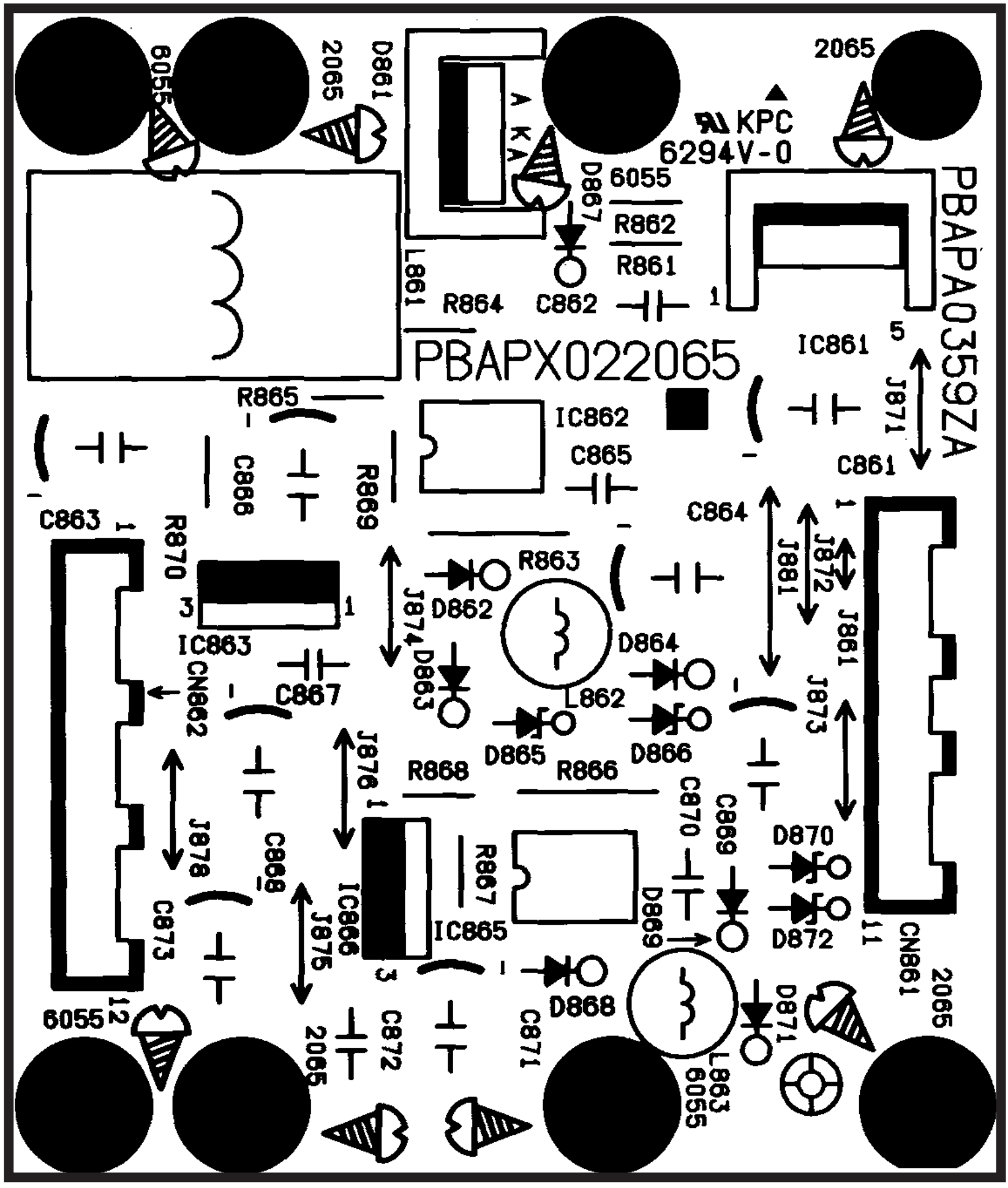
13.23 ENDING (FRONT) LED Board


KPC
6294V-0
PBAPA0263ZF
PBAPX02632055B
END_F[L]
A
K
D508
CN528
1
4

13.24 POST IMPRINTER DOOR Board


IC514
A
K
E
C
B
E
R563
Q539
R562
C544
CN530
PBAPX02782055B
5
PIP_DOOR
1
AKPC 6294V-0

13.25 DC-DC CONVERTER Board


PBAPX022065
PBAPA035ZA
KPC
6294V-0
IC861
IC862
IC863
IC865
IC866
CN862
CN861
L861
L862
L863
R861
R862
R863
R864
R865
R866
R867
R868
R869
R870
C861
C862
C863
C864
C865
C866
C867
C868
C869
C870
C871
C872
C873
D861
D862
D863
D864
D865
D866
D867
D868
D869
D870
D871
D872
J861
J871
J872
J873
J874
J875
J876
J878
J881
2065
6055

13.26 POWER Board

PBAPA0356ZA
KPC 6294V-0
CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE REPLACE ONLY WITH THE SAME TYPE AND RATINGS OF FUSE.
T4AH 250V
PBAPX012065
CN801
F801
ZNR801
C801
L801
C802
L802
C803
C804
C805
C806
C807
C808
C809
C810
C811
C812
C813
C814
C815
C816
C817
C818
C819
C820
C821
C822
C831
C832
C833
C834
C835
C836
C837
C838
C839
R801
R802
R803
R804
R805
R806
R807
R808
R809
R810
R811
R812
R813
R814
R815
R816
R817
R818
R819
R820
R821
R822
R831
R832
R833
R834
R835
R836
R837
R838
R839
R840
R841
R842
R843
R844
R845
R846
R847
D801
D802
D803
D804
D805
D806
D807
D808
D821
D822
D823
D824
D825
D826
D827
D828
D829
D830
D831
Q801
Q821
IC801
IC802
IC803
IC804
PC801
PC802
T801
TH801
ZNR802
ZNR803
ZNR804
J811
J812
J813
J814
J815
J816
J821
J822
J823
J824
J825
J826
J831
CN802
CN803
6055/2065
2065
6055

14 SCHEMATIC DIAGRAM

TOP PREVIOUS NEXT

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURE'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THIS SCHEMATIC.

Index

14.1 MAIN CONTROL Board

14.2 SCSI Board

14.3 MOTHER Board

14.4 DRIVE Board

14.5 PANEL Board

14.6 RELAY LOWER and UPPER Boards

14.7 Sensor Boards

14.8 DC-DC CONVERTER and POWER Board

Note:

This Schematic Diagram is the latest at the time of printing and subject to change without notice.

14.1 MAIN CONTROL Board

14.2 SCSI Board

14.3 MOTHER Board

14.4 DRIVE Board

14.5 PANEL Board

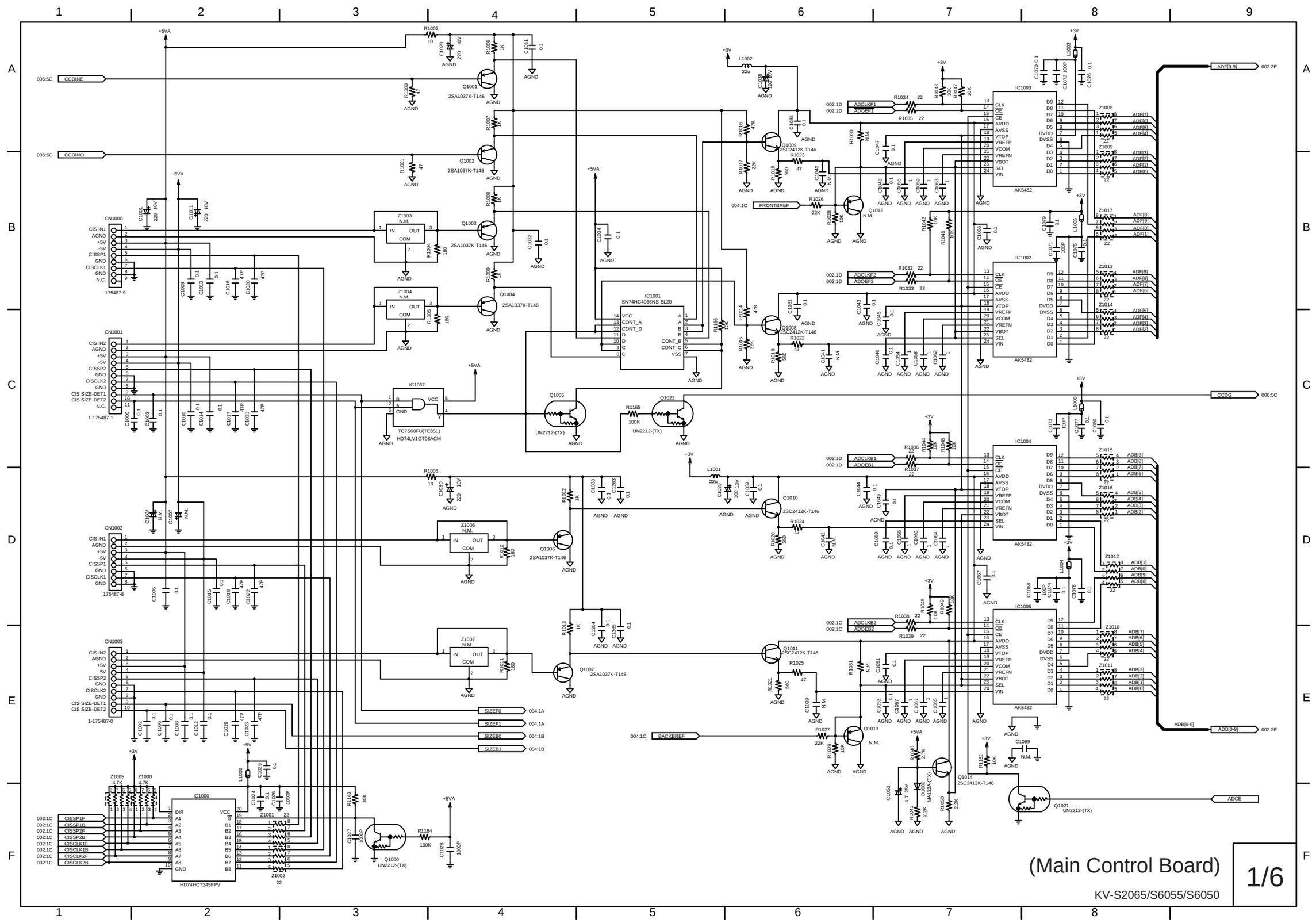
14.6 RELAY LOWER and UPPER Boards

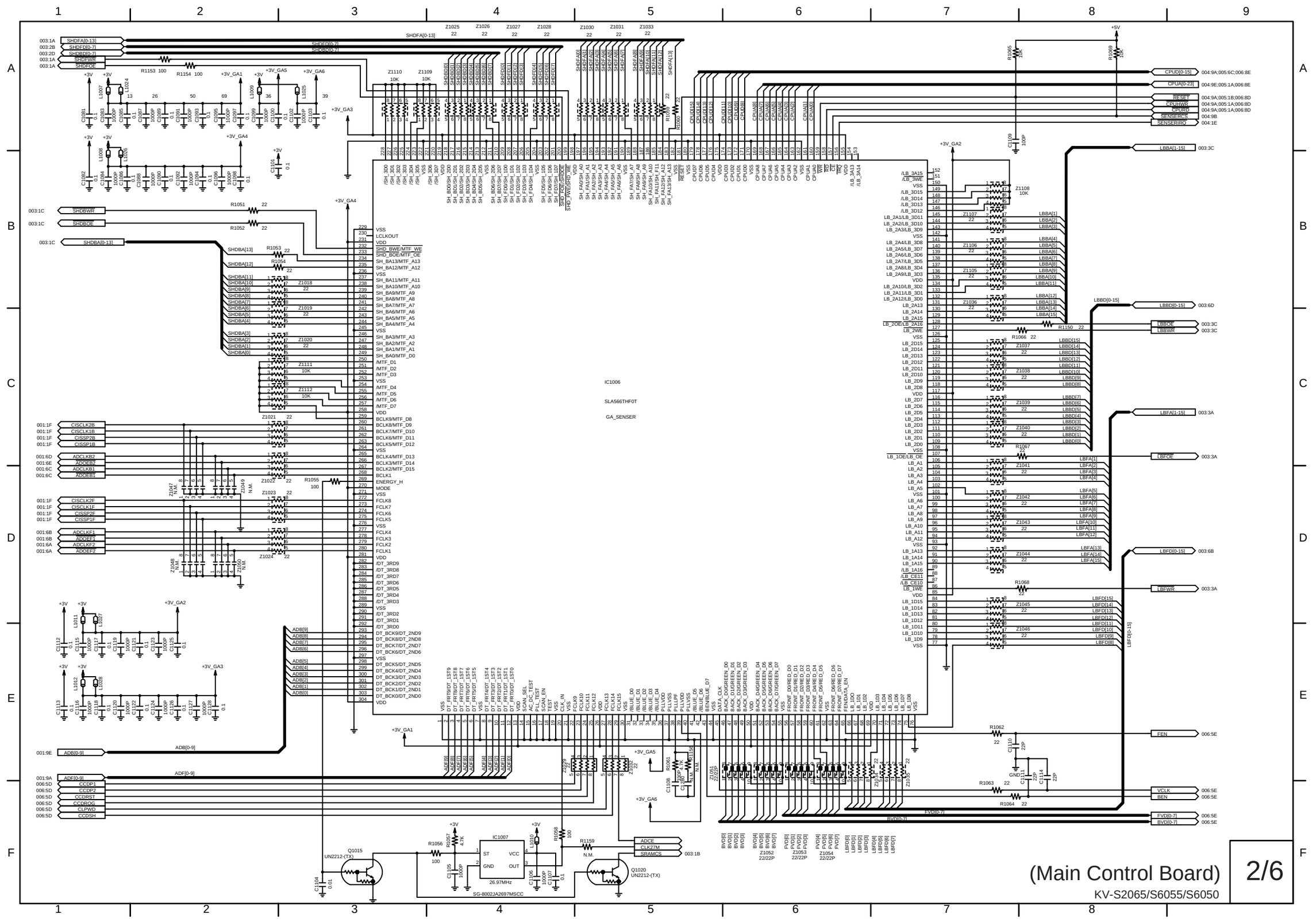
14.7 SENSOR Boards

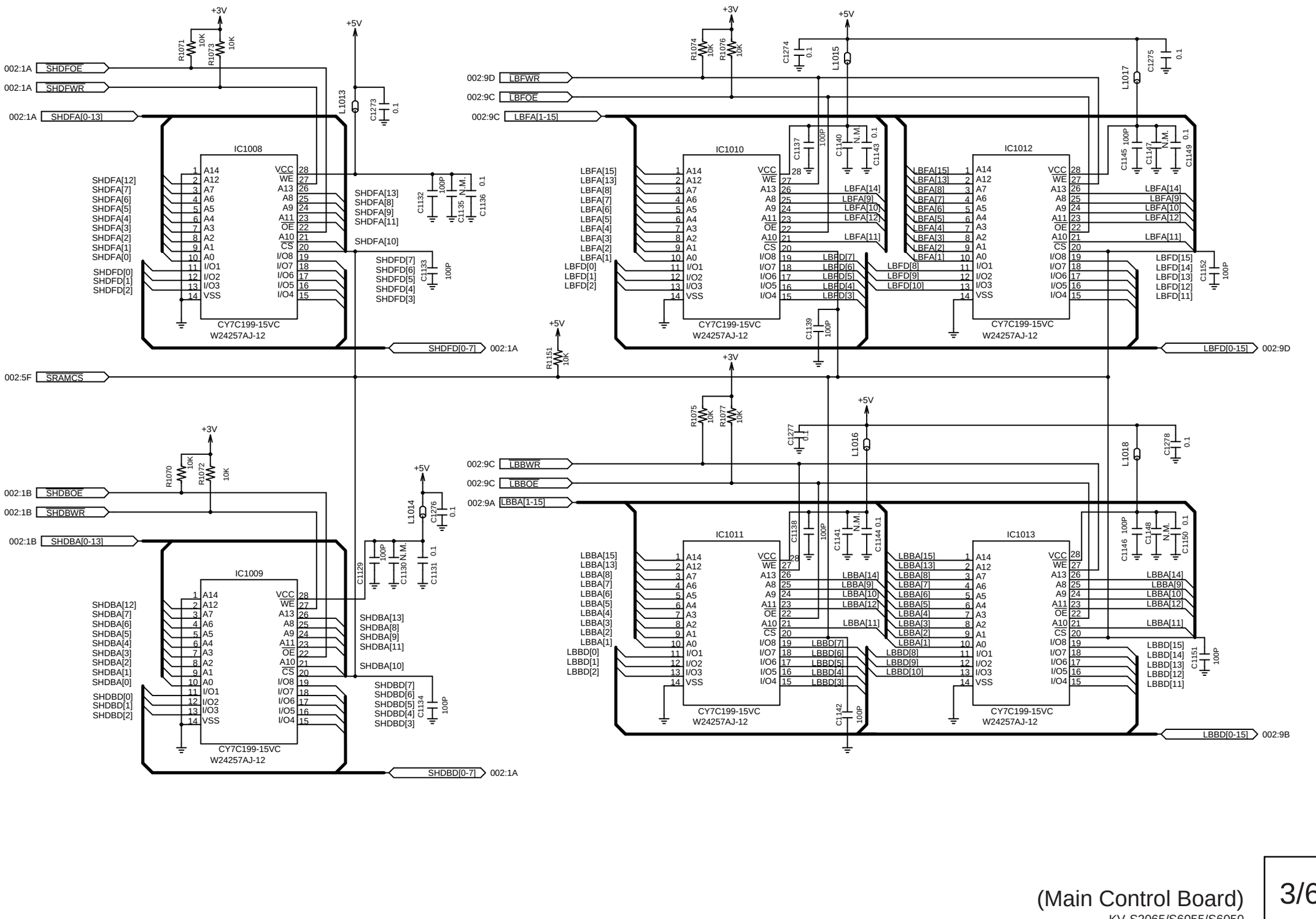
14.8 DC-DC CONVERTER and POWER Boards

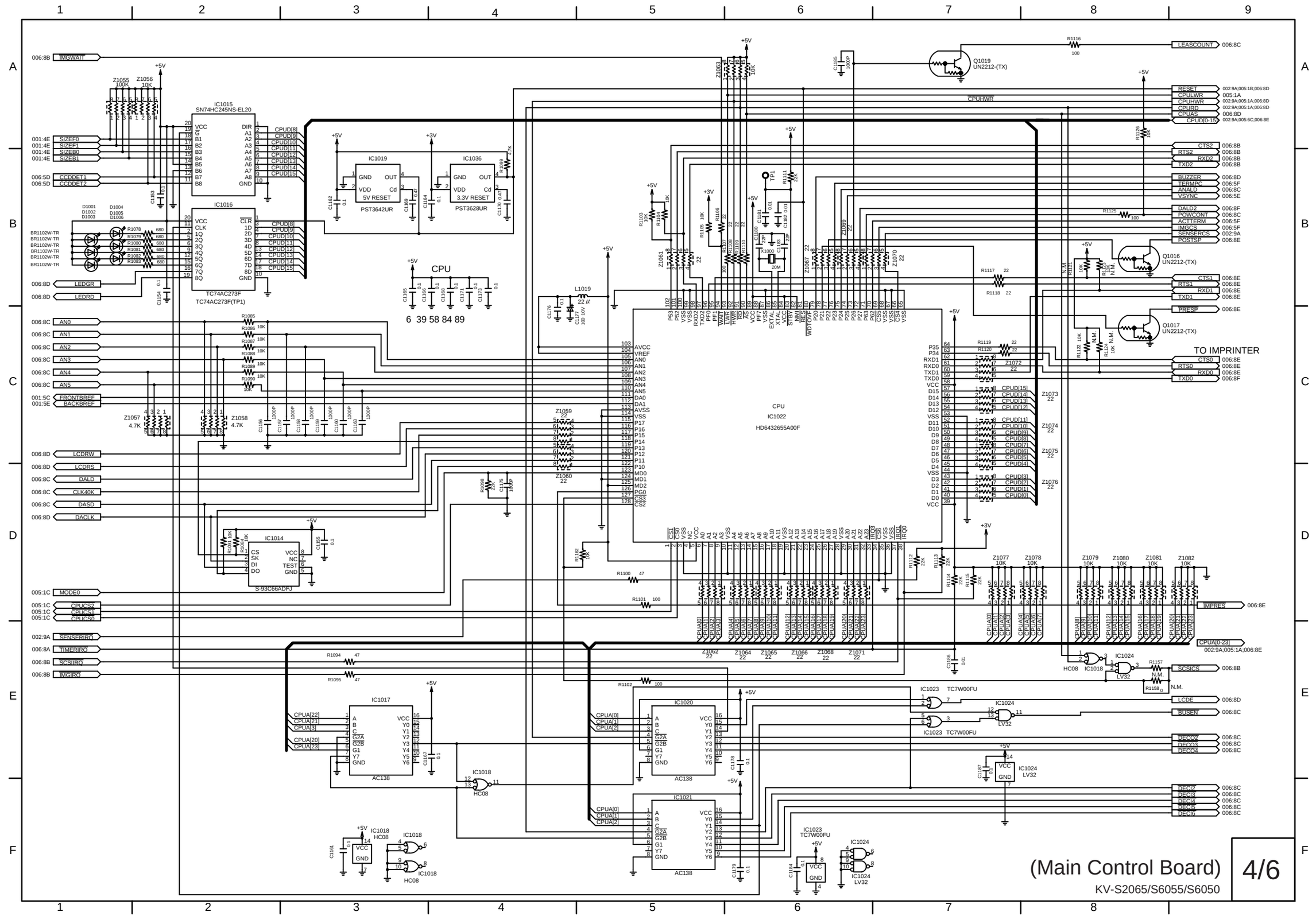
TOP PREVIOUS NEXT

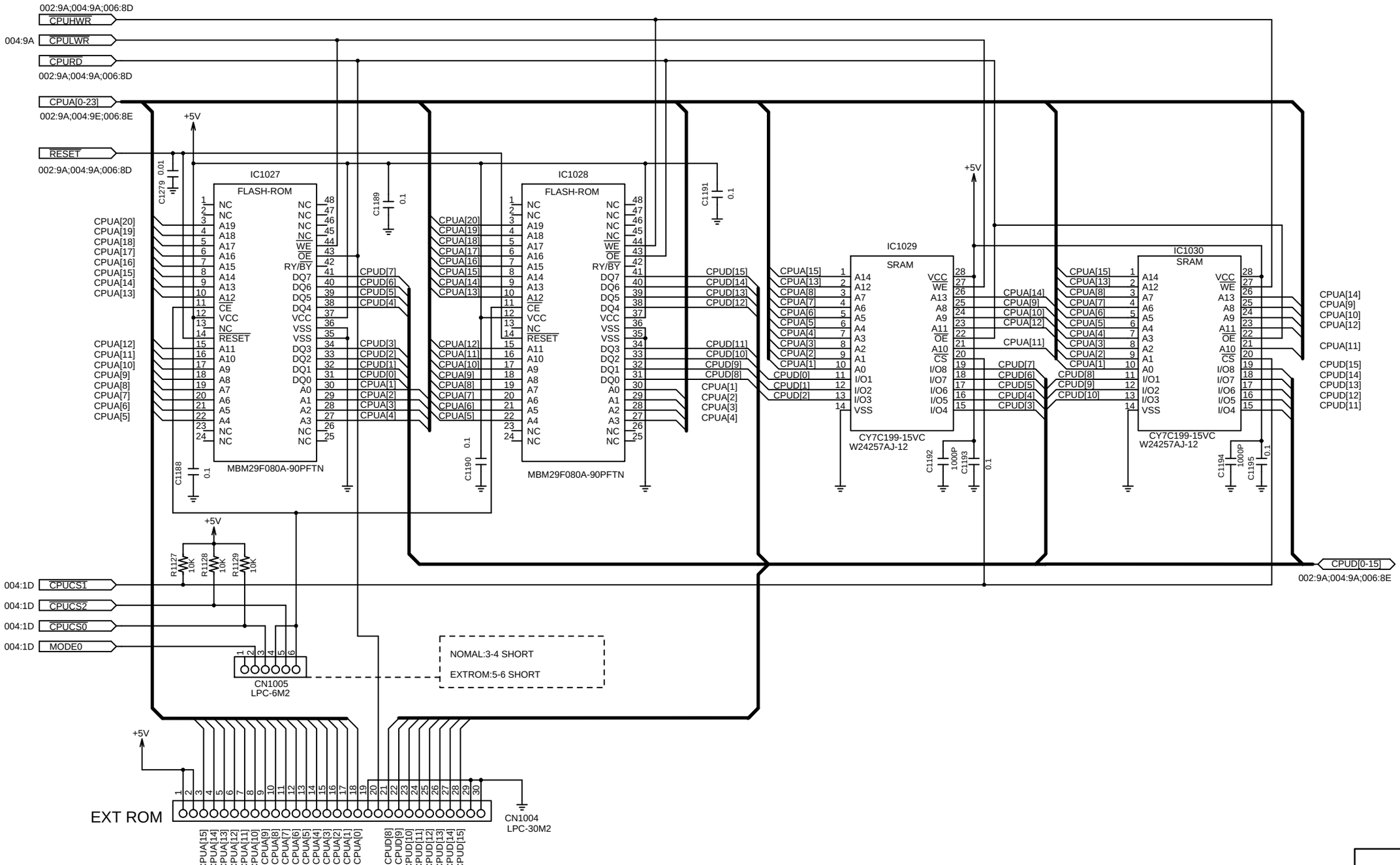
14.1 MAIN CONTROL Board


(Main Control Board)
KV-S2065/S6055/S6050
1/6


IC1006
SLA566THF0T
GA_SENSER
IC1007
26.97MHz
SG-8002JA2697MSCC
Q1015
UN2212-(TX)
Q1020
UN2212-(TX)
(Main Control Board)
KV-S2065/S6055/S6050
2/6

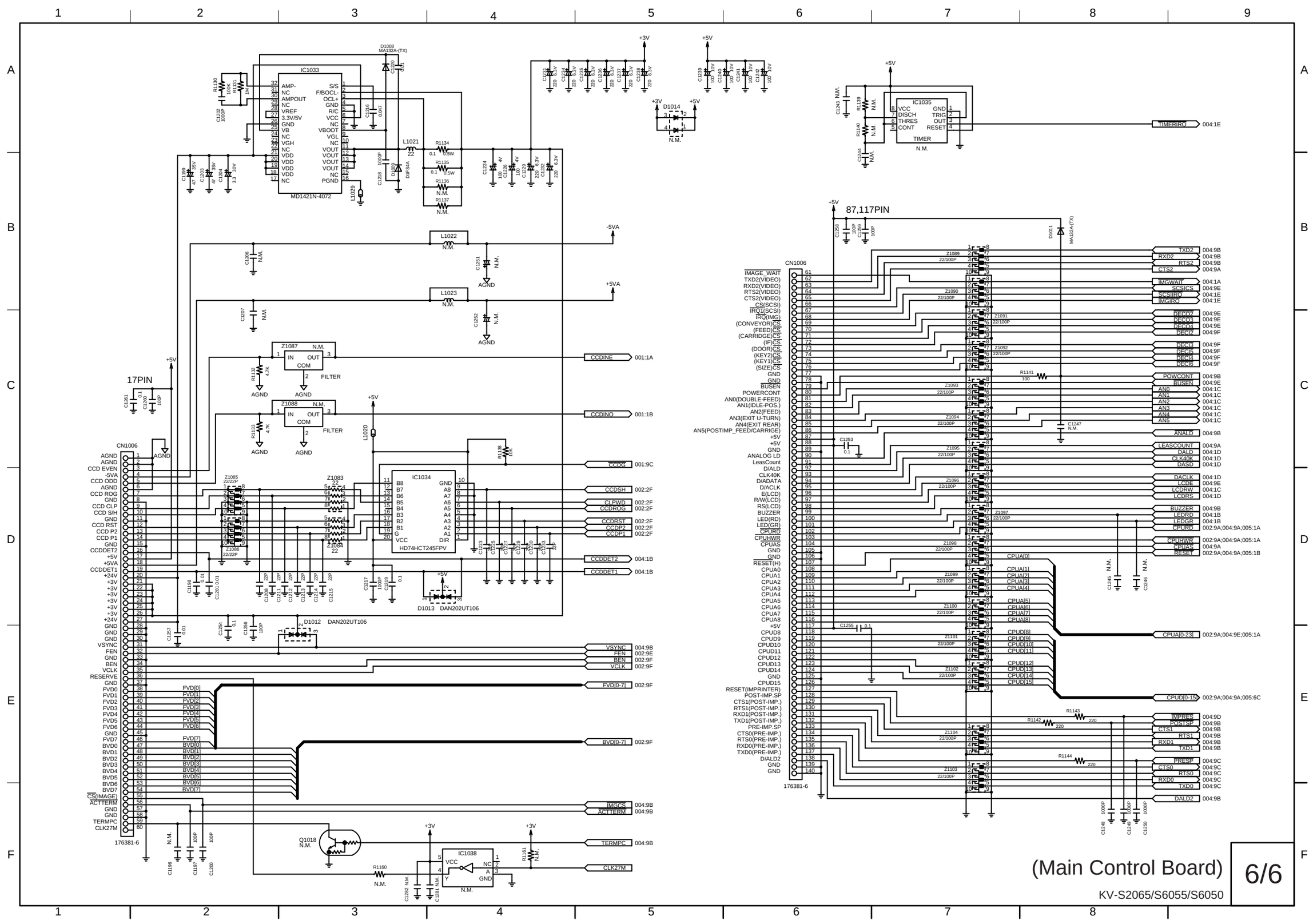

002:1A SHDFOE
002:1A SHDFWR
002:1A SHDFA[0-13]
002:9D LBFWR
002:9C LBFOE
002:9C LBFA[1-15]
002:5F SRAMCS
002:1B SHDBOE
002:1B SHDBWR
002:1B SHDBA[0-13]
002:9C LBBWR
002:9C LBBOE
002:9A LBBA[1-15]
+3V
+5V
IC1008
IC1009
IC1010
IC1011
IC1012
IC1013
CY7C199-15VC
W24257AJ-12
SHDFD[0-7] 002:1A
SHDBD[0-7] 002:1A
LBFD[0-15] 002:9D
LBBD[0-15] 002:9B
(Main Control Board)
KV-S2065/S6055/S6050
3/6


IMGWAIT
SIZEF0
SIZEF1
SIZEB0
SIZEB1
CCDDET1
CCDDET2
LEDGR
LEDRD
AN0
AN1
AN2
AN3
AN4
AN5
FRONTBREF
BACKBREF
LCDRW
LCDRS
DALD
CLK40K
DASD
DACLK
MODE0
CPUCS2
CPUCS1
CPUCS0
SENSERIRQ
TIMERIRQ
SCSIIRQ
IMGIRQ
IC1015
SN74HC245NS-EL20
IC1016
TC74AC273F
TC74AC273F(TP1)
IC1019
5V RESET
PST3642UR
IC1036
3.3V RESET
PST3628UR
CPU
6 39 58 84 89
IC1022
HD6432655A00F
IC1014
S-93C66ADFJ
IC1017
IC1018
IC1020
IC1021
AC138
HC08
IC1023
TC7W00FU
IC1024
LV32
Q1019
UN2212-(TX)
Q1016
UN2212-(TX)
Q1017
UN2212-(TX)
TO IMPRINTER
LEASCOUNT
CPUHWR
RESET
CPULWR
CPUHWR
CPURD
CPUAS
CPUD[0-15]
CTS2
RTS2
RXD2
TXD2
BUZZER
TERMPC
ANALD
VSYNC
DALD2
POWCONT
ACTTERM
IMGCS
SENSERCS
POSTSP
PRESP
CTS1
RTS1
RXD1
TXD1
CTS0
RTS0
RXD0
TXD0
IMPRES
CPUA[0-23]
SCSICS
LCDE
BUSEN
DECO2
DECO3
DECO4
DECI2
DECI3
DECI4
DECI5
DECI6
(Main Control Board)
KV-S2065/S6055/S6050
4/6

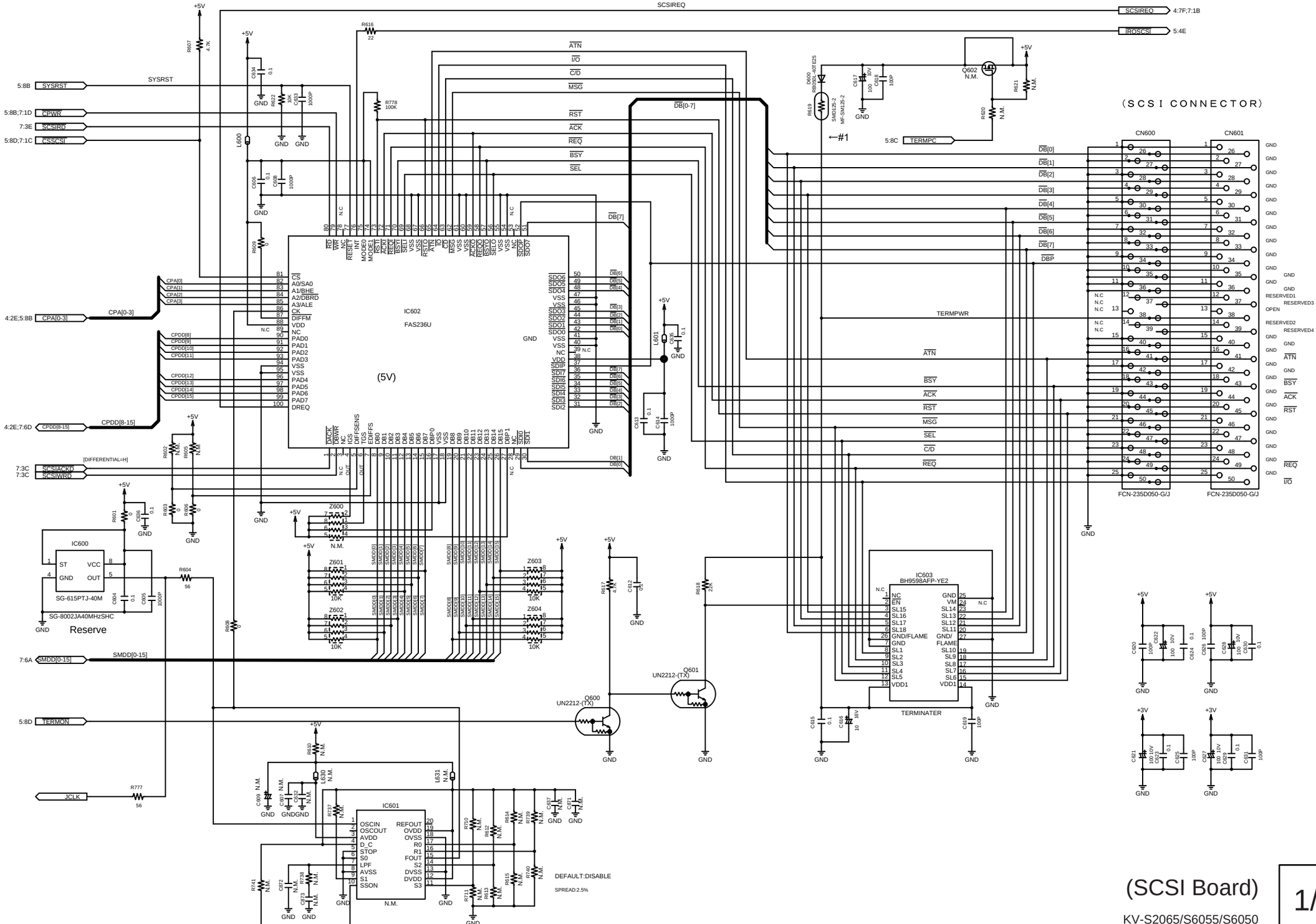


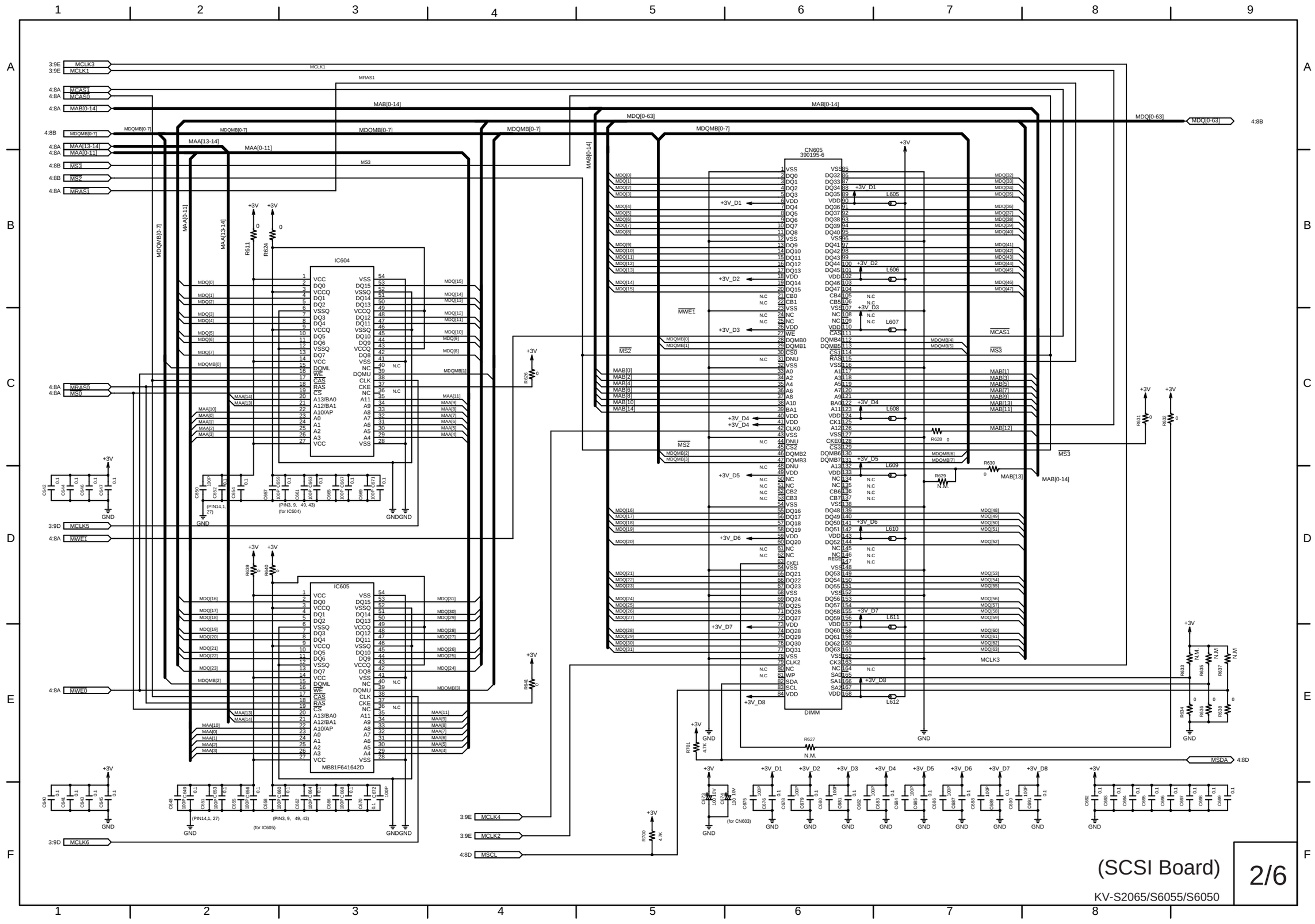
(Main Control Board)

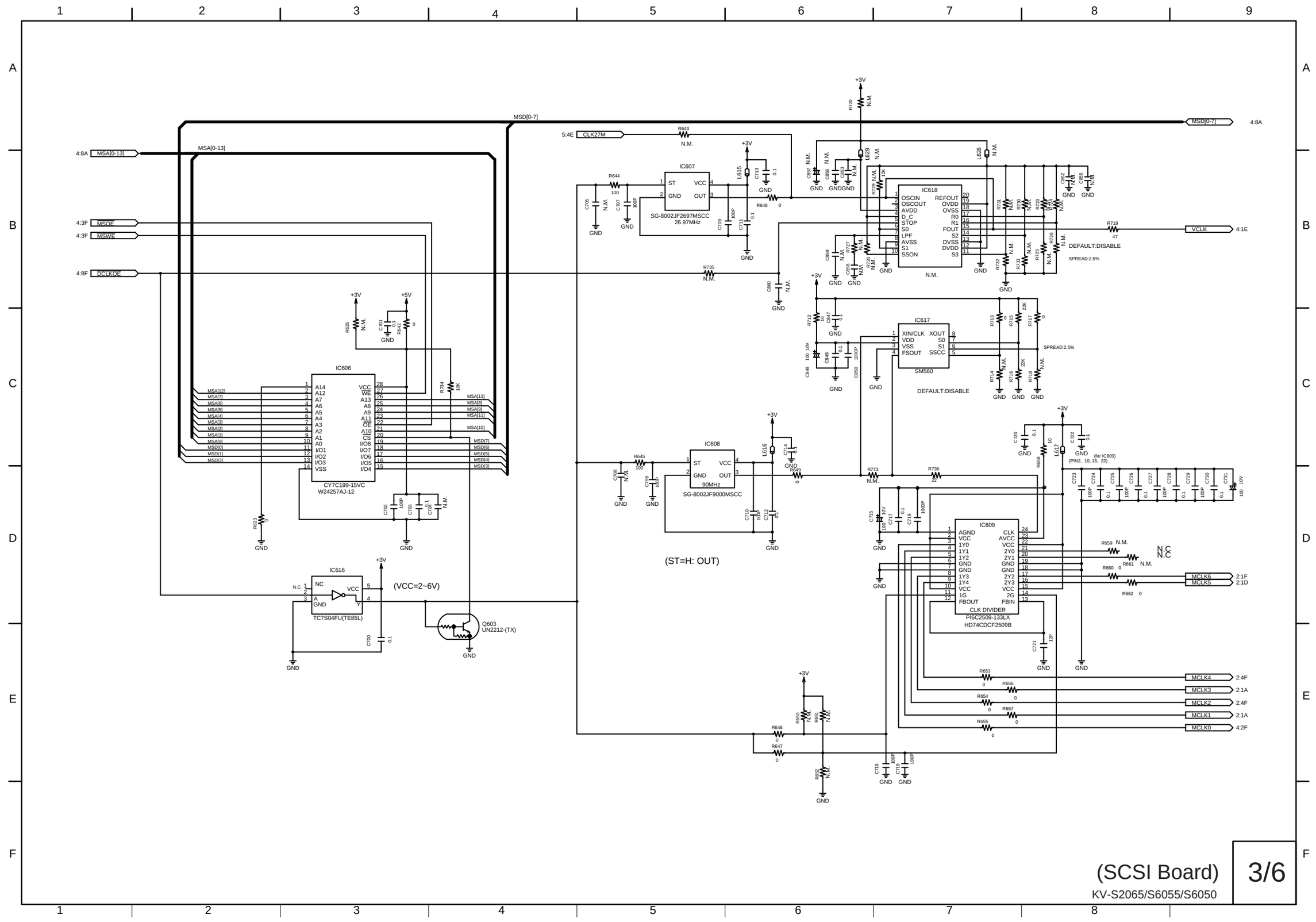
KV-S2065/S6055/S6050


IC1033
MD1421N-4072
IC1035
TIMER
IC1034
HD74HCT245FPV
IC1038
CN1006
176381-6
87,117PIN
17PIN
(Main Control Board)
KV-S2065/S6055/S6050
6/6

14.2 SCSI Board


SCSIREQ
SCSIREQ 4:7F;7:1B
IROSCSI 5:4E
(SCSI CONNECTOR)
SYSRST
CPWR
SCSIRD
CSSCST
CPA[0-3]
CPDD[8-15]
SCSIACKD
SCSIWRD
TERMON
SMDD[0-15]
JCLK
TERMPC
TERMPWR
IC602
FAS236U
(5V)
IC600
SG-615PTJ-40M
SG-8002JA40MHzSHC
Reserve
IC601
IC603
BH9598AFP-YE2
TERMINATER
Q600
UN2212-(TX)
Q601
UN2212-(TX)
Q602
N.M.
CN600
CN601
FCN-235D050-G/J
DEFAULT:DISABLE
SPREAD:2.5%
(SCSI Board)
KV-S2065/S6055/S6050
1/6

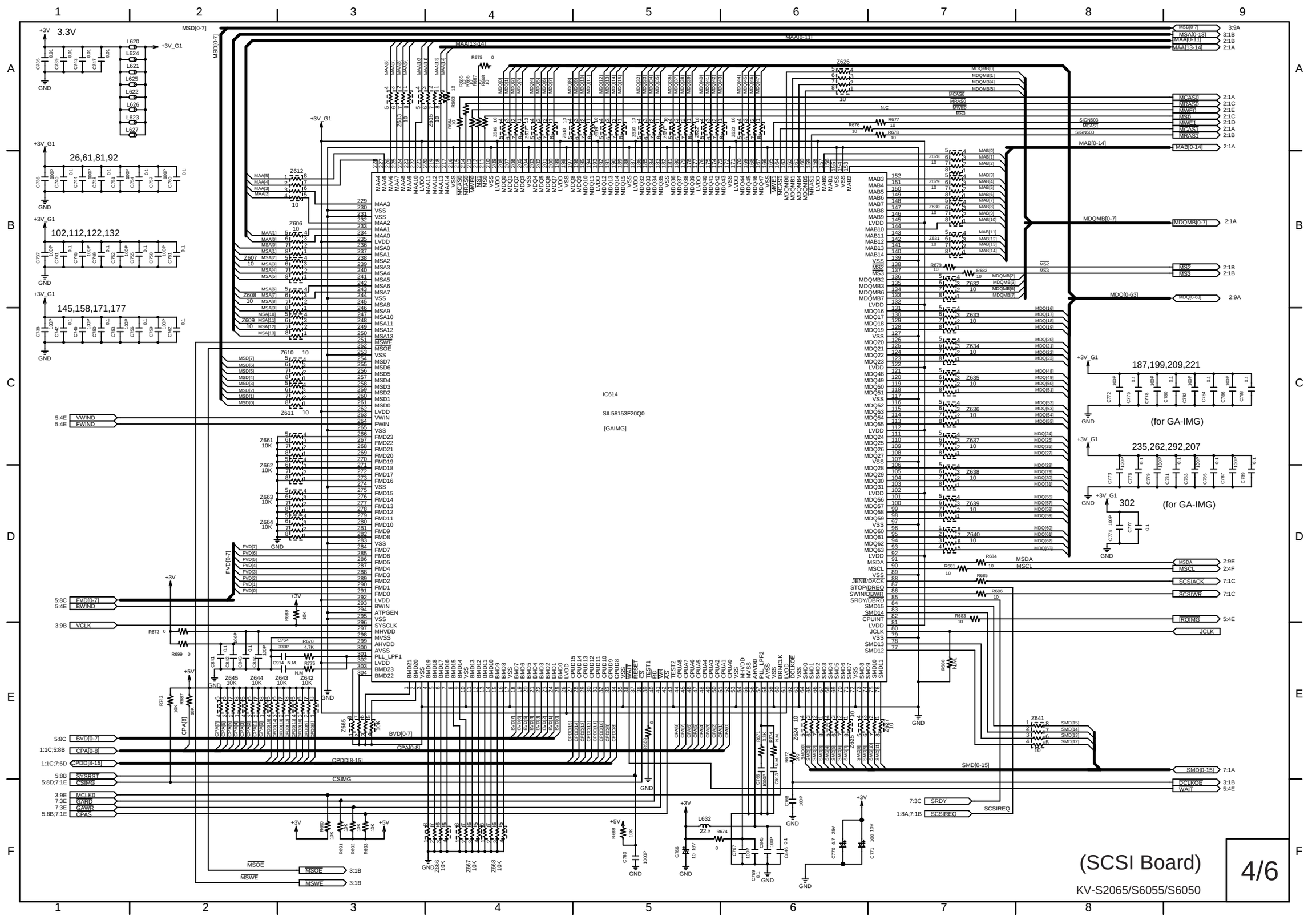

(SCSI Board)
2/6
KV-S2065/S6055/S6050
IC604
IC605
MB81F641642D
CN605
390195-6
DIMM
MCLK3
MCLK1
MRAS1
MCAS1
MCAS0
MAB[0-14]
MDQ[0-63]
MDQMB[0-7]
MAA[13-14]
MAA[0-11]
MS3
MS2
MRAS1
MBAS0
MS0
MWE1
MWE0
MCLK5
MCLK6
MCLK4
MCLK2
MSCL
MSDA
+3V
GND
N.M.

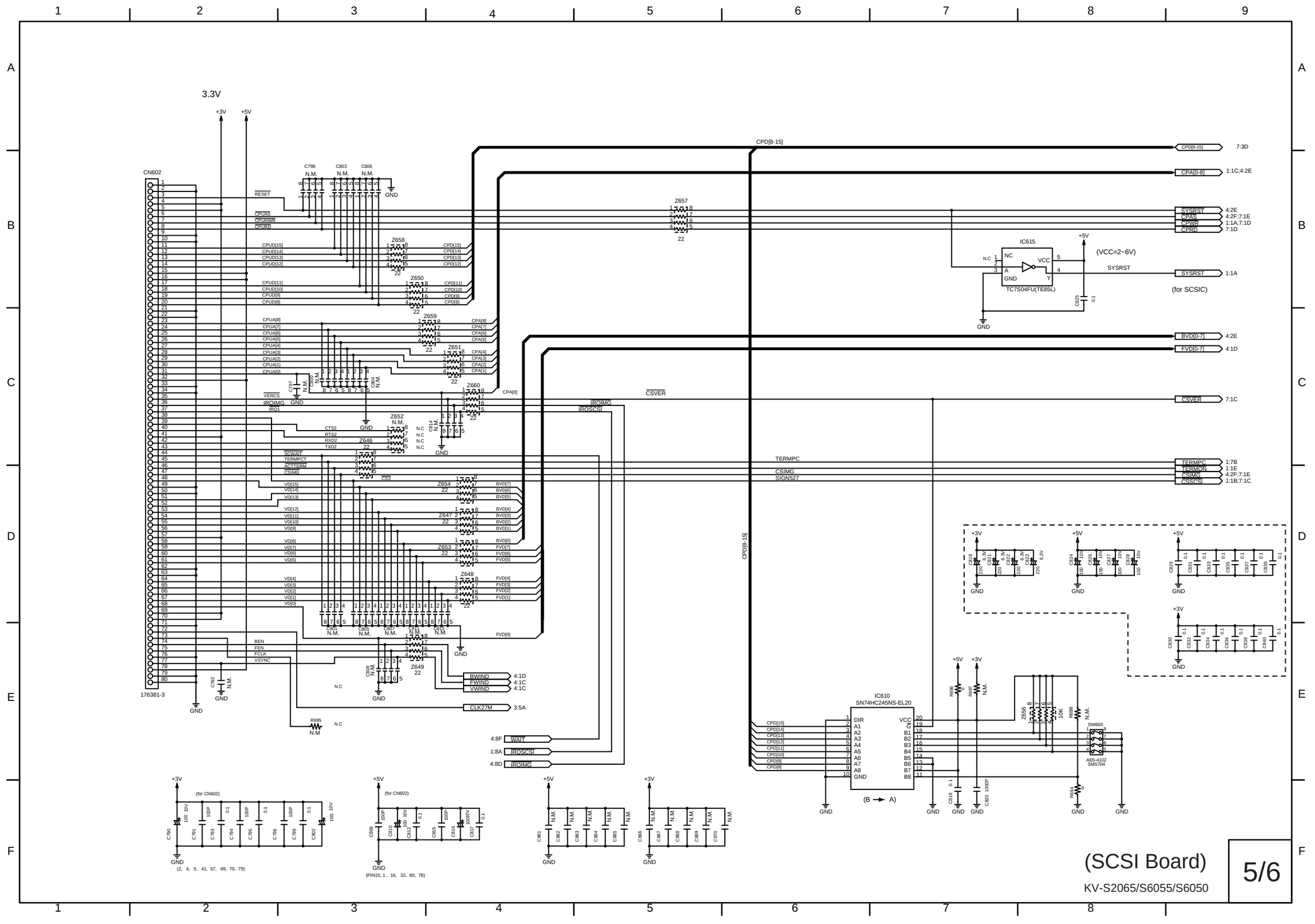


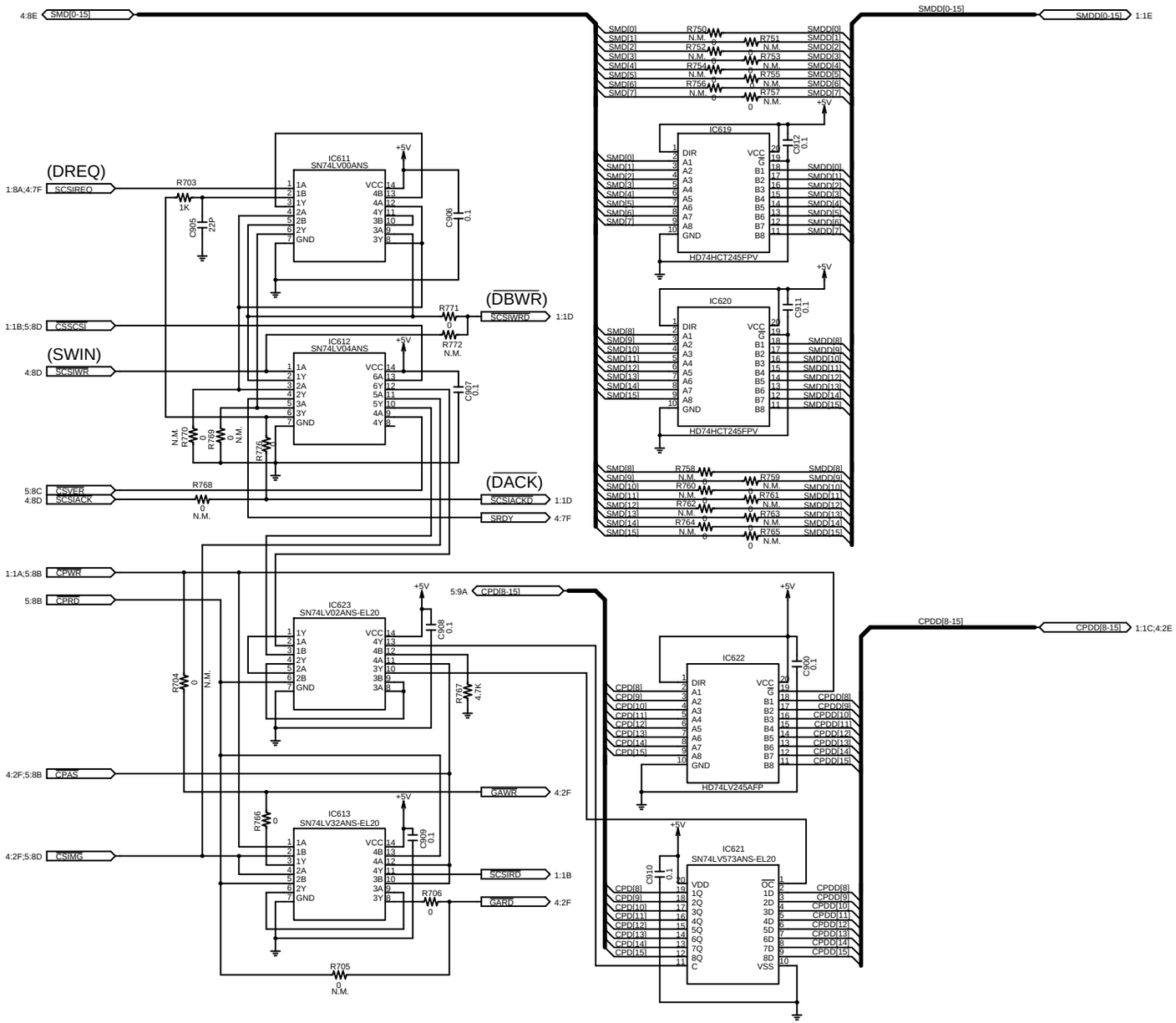
(SCSI Board)

KV-S2065/S6055/S6050

3/6


3.3V
26,61,81,92
102,112,122,132
145,158,171,177
IC614
SIL58153F20Q0
[GAIMG]
187,199,209,221
(for GA-IMG)
235,262,292,207
(for GA-IMG)
302
(SCSI Board)
KV-S2065/S6055/S6050
4/6


3.3V
CN602
176381-3
RESET
CPUAS
CPUR/W
CPURD
CPUD[15]
CPUD[14]
CPUD[13]
CPUD[12]
CPUD[11]
CPUD[10]
CPUD[9]
CPUD[8]
CPUA[8]
CPUA[7]
CPUA[6]
CPUA[5]
CPUA[4]
CPUA[3]
CPUA[2]
CPUA[1]
CPUA[0]
VERCS
IRQIMG
IRQ1
CTS2
RTS2
RXD2
TXD2
SCWAIT
TERMPCT
ACTTERM
CSIMG
CS3
VD[15]
VD[14]
VD[13]
VD[12]
VD[11]
VD[10]
VD[9]
VD[8]
VD[7]
VD[6]
VD[5]
VD[4]
VD[3]
VD[2]
VD[1]
VD[0]
BEN
FEN
FCLK
VSYNC
BWIND
FWIND
VWIND
CLK27M
WAIT
IROSCSI
IROIMG
CPD[8-15]
CPA[0-8]
SYSRST
CPAS
CPUR/W
CPRD
BVD[0-7]
FVD[0-7]
CSVER
TERMPC
CSIMG
SIGN527
IC615
TC7S04FU(TE85L)
(VCC=2~6V)
(for SCSIC)
IC610
SN74HC245NS-EL20
(B → A)
SW600
A6S-4102
SMS704
(SCSI Board)
KV-S2065/S6055/S6050
5/6



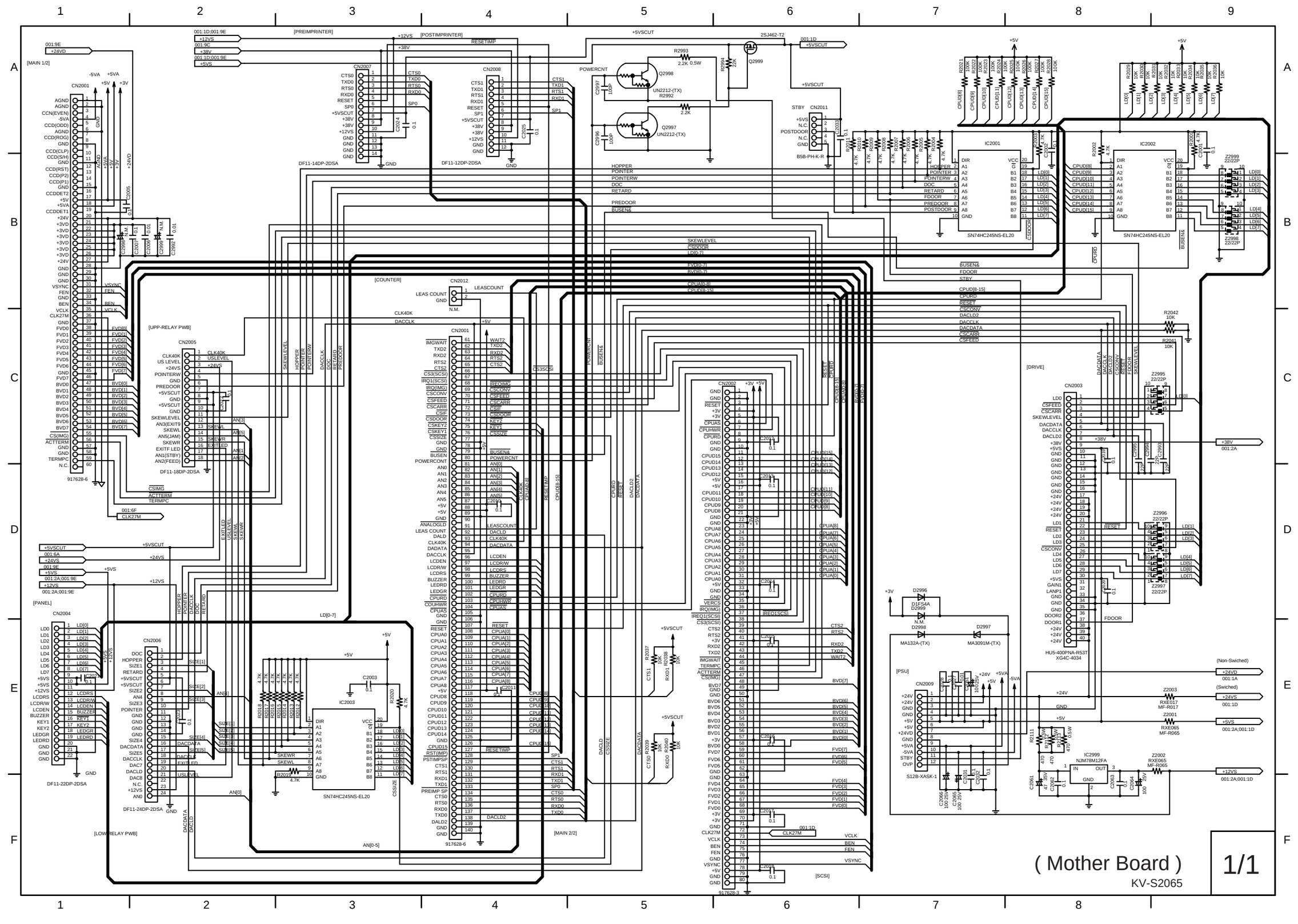
(SCSI Board)

KV-S2065/S6055/S6050

6/6

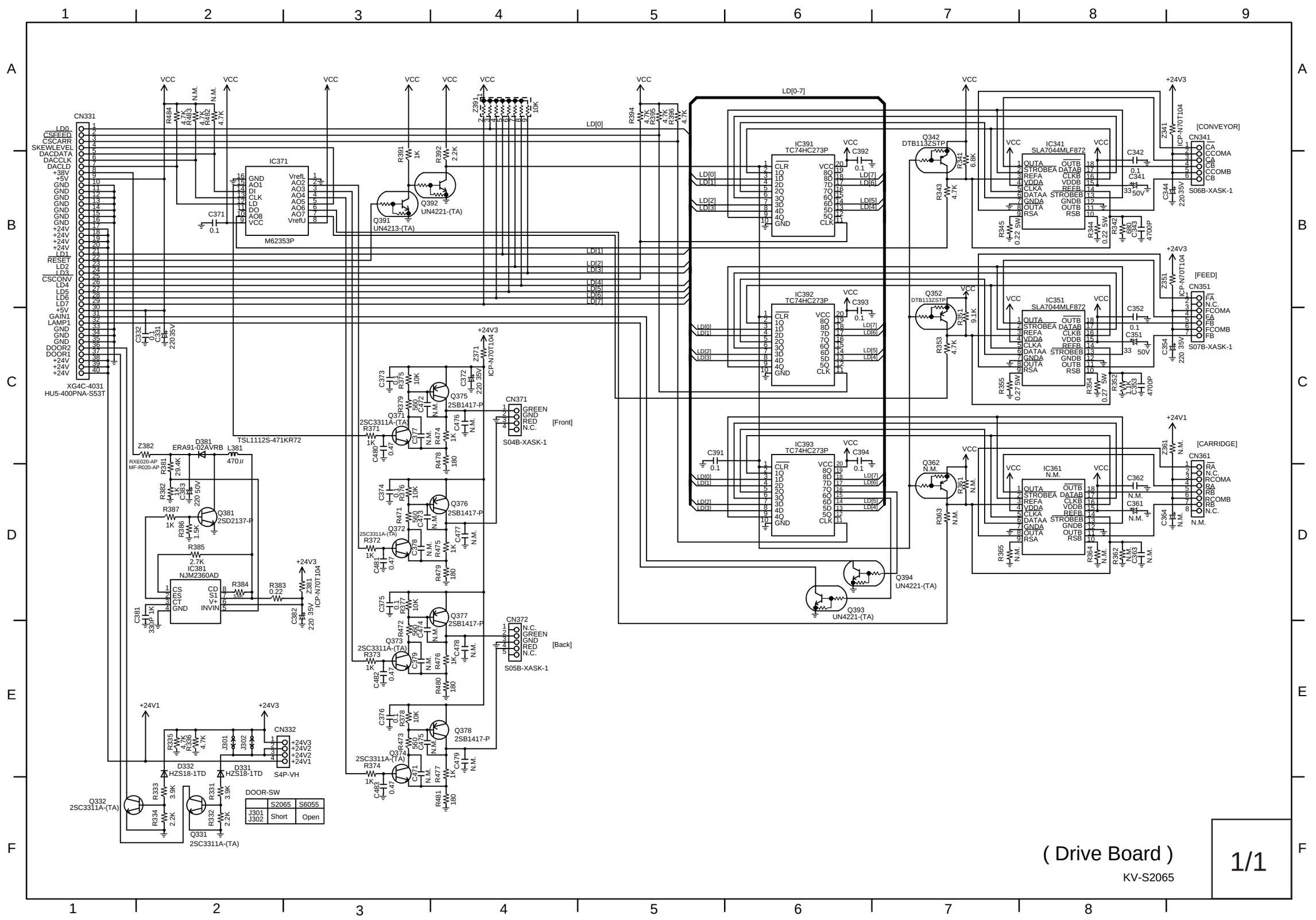
14.3 MOTHER Board

MEMO


(Mother Board)
KV-S2065
1/1
[MAIN 1/2]
[MAIN 2/2]
[PREIMPRINTER]
[POSTIMPRINTER]
[COUNTER]
[UPP-RELAY PWB]
[LOWRELAY PWB]
[PANEL]
[DRIVE]
[PSU]
[SCSI]
CN2001
CN2002
CN2003
CN2004
CN2005
CN2006
CN2007
CN2008
CN2009
CN2011
CN2012
IC2001
IC2002
IC2003
IC2999
SN74HC245NS-EL20
DF11-14DP-2DSA
DF11-12DP-2DSA
DF11-18DP-2DSA
DF11-22DP-2DSA
DF11-24DP-2DSA
917628-6
917628-3
S12B-XASK-1
B5B-PH-K-R
HU5-400PNA-R53T
XG4C-4034
MA132A-(TX)
MA3091M-(TX)
2SJ462-T2
UN2212-(TX)
R2992
R2993
2.2K 0.5W
2.2K
Q2998
Q2997
Q2999
POWERCNT
HOPPER
POINTER
POINTERW
DOC
RETARD
FDOOR
PREDOOR
BUSEN&
STBY
SKEWLEVEL
CSDOOR
LDI0-7]
FVD[0-7]
BVD[0-7]
CPUA[8-8]
CPUD[8-15]
CPURD
RESET
CSCONV
DACLD2
DACCLK
DACDATA
CSCARR
CSFEED
CPUD[8-15]
CPUA[0-8]
LD[0-7]
AN[0-5]
SIZE[1-5]
SKEWR
SKEWL
EXITLED
USLEVEL
CSSIZE
DACLD
DACDATA
CSSCSI
RESETIMP
IREQ1SCSI
CTS2
RTS2
RXD2
TXD2
WAIT2
IMGWAIT
TERMPC
ACTTERM
CS(IMG)
VCLK
BEN
FEN
VSYNC
CLK27M
CLK40K
LEASCOUNT
+24VD
+38V
+5VSCUT
+5V
-5V
-5VA
+5VA
+3V
+24V
GND
001:1A
001:1D
001:2A
001:2A,001:9E
001:6A
001:6F
001:9C
001:9E
001:1D,001:9E
(Non-Swiched)
(Swiched)

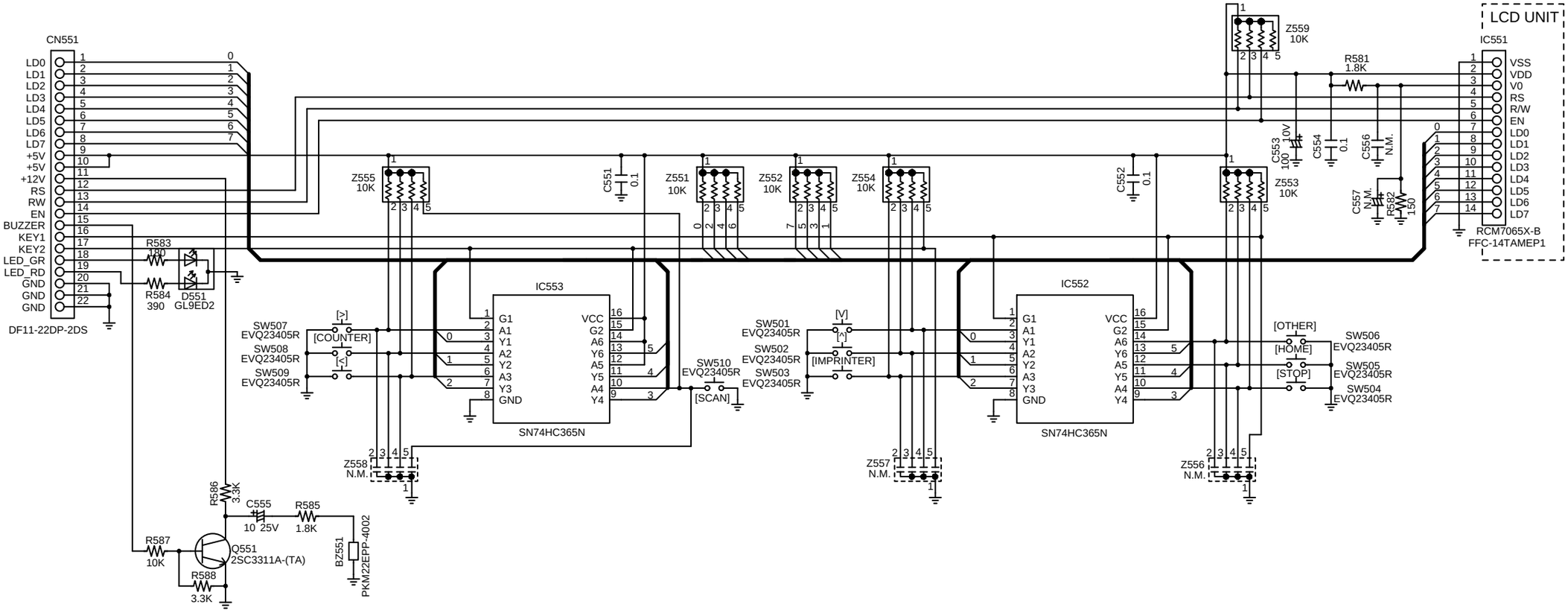
14.4 DRIVE Board

MEMO


(Drive Board)
KV-S2065
1/1
CN331
XG4C-4031
HU5-400PNA-S53T
IC371
M62353P
IC391
TC74HC273P
IC392
TC74HC273P
IC393
TC74HC273P
IC341
SLA7044MLF872
IC351
SLA7044MLF872
IC361
N.M.
IC381
NJM2360AD
Q342
DTB113ZSTP
Q352
DTB113ZSTP
Q362
N.M.
Q391
UN4213-(TA)
Q392
UN4221-(TA)
Q393
UN4221-(TA)
Q394
UN4221-(TA)
Q371
2SC3311A-(TA)
Q372
2SC3311A-(TA)
Q373
2SC3311A-(TA)
Q374
2SC3311A-(TA)
Q375
2SB1417-P
Q376
2SB1417-P
Q377
2SB1417-P
Q378
2SB1417-P
Q381
2SD2137-P
Q331
2SC3311A-(TA)
Q332
2SC3311A-(TA)
D381
ERA91-02AVRB
D331
HZS18-1TD
D332
HZS18-1TD
TSL1112S-471KR72
CN341
S06B-XASK-1
CN351
S07B-XASK-1
CN361
CN371
S04B-XASK-1
CN372
S05B-XASK-1
CN332
S4P-VH
[CONVEYOR]
[FEED]
[CARRIDGE]
[Front]
[Back]
DOOR-SW
S2065
S6055
J301
J302
Short
Open
VCC
+24V3
+24V1
LD[0-7]
LD[0]
LD[1]
LD[2]
LD[3]
LD[4]
LD[5]
LD[6]
LD[7]

14.5 PANEL Board

MEMO

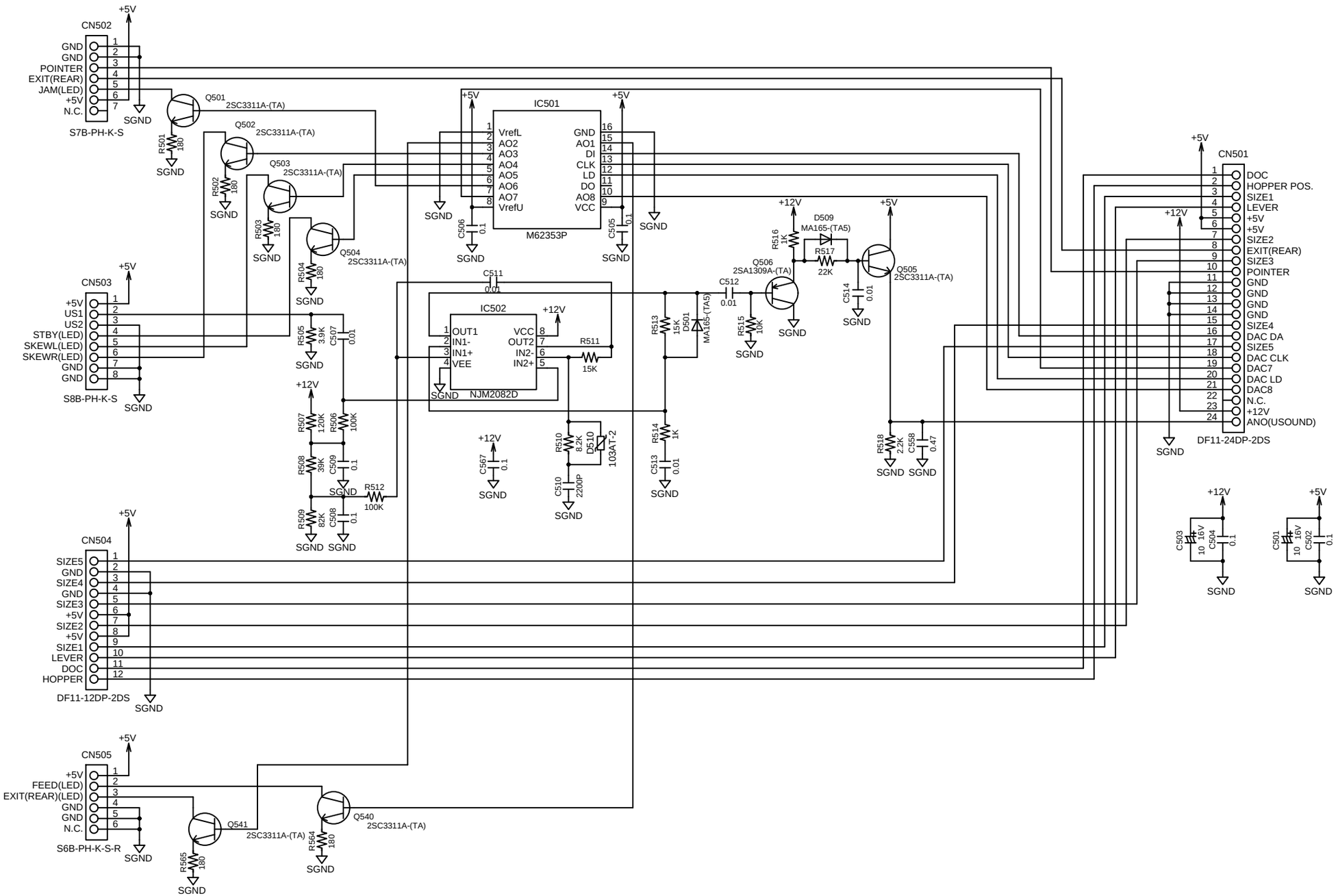


(Panel Board)

KV-S2065

1/1

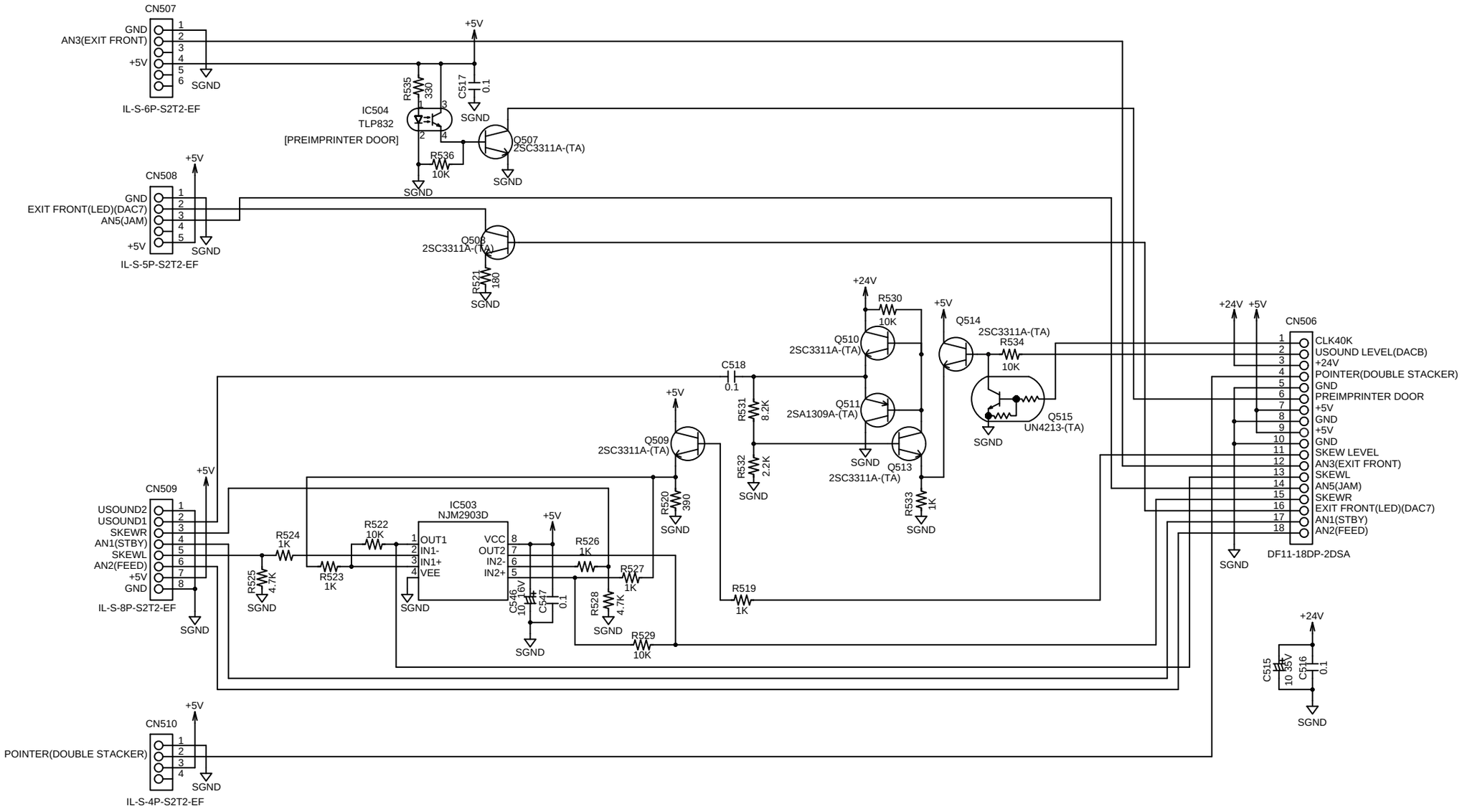
14.6 RELAY LOWER and UPPER Boards



(Relay 1-Lower Board)

KV-S2065

1/1



(Relay 2-Upper Board)

KV-S2065

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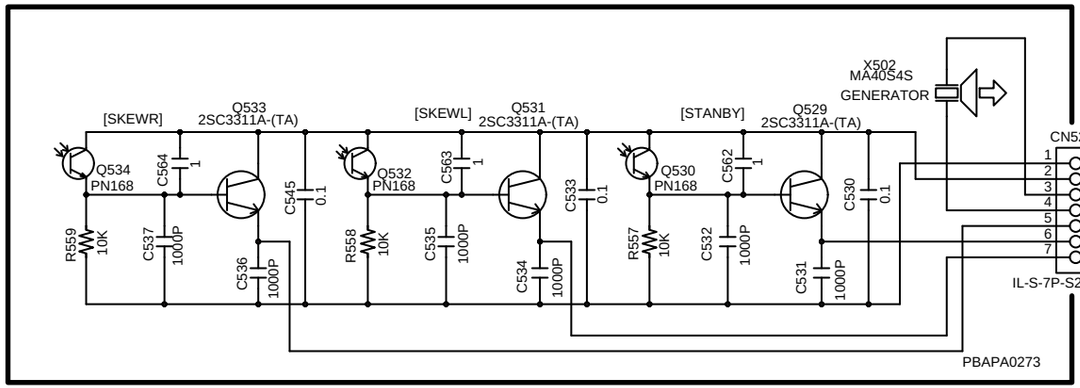
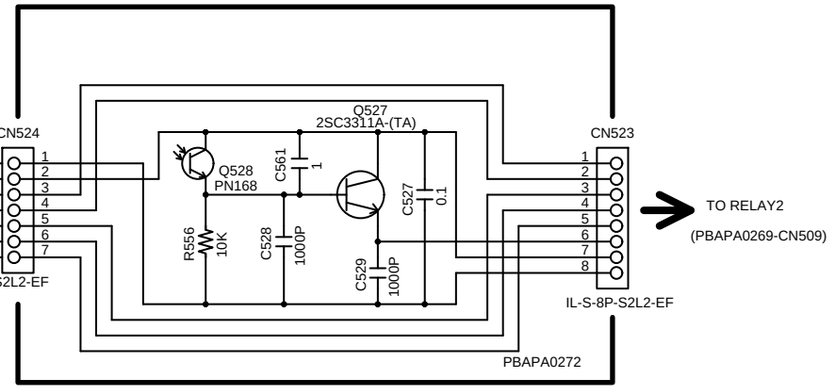
14.7 SENSOR Boards

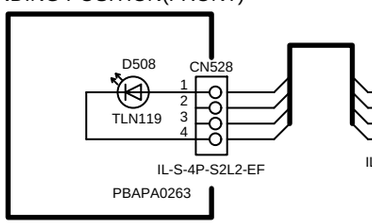
DOUBLE FEED DETECTOR(GENERATOR)STANBY,SKEW



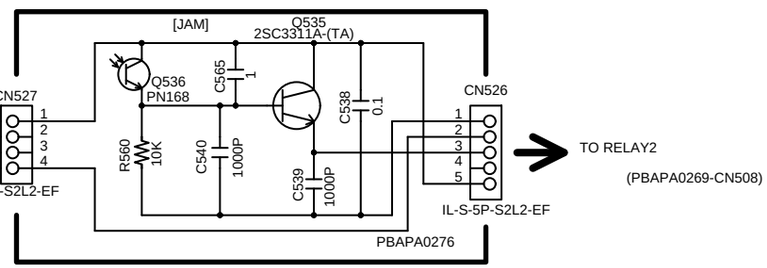
STARTING POSITION



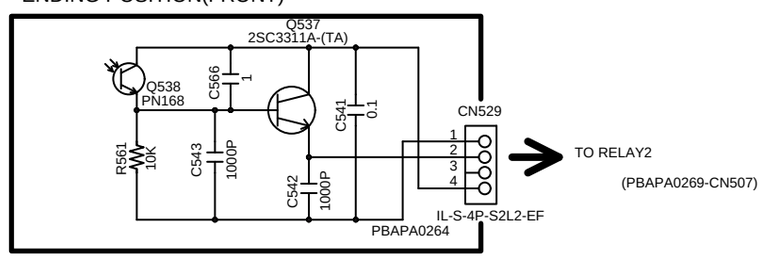
ENDING POSITION(FRONT)



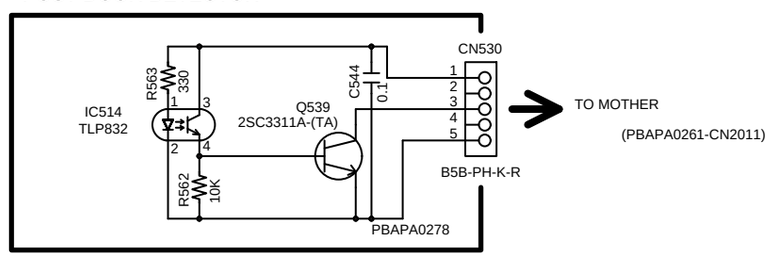
JAM DETECTOR



ENDING POSITION(FRONT)



POST DOOR DETECTOR



(Sensor Board)

KV-S2065

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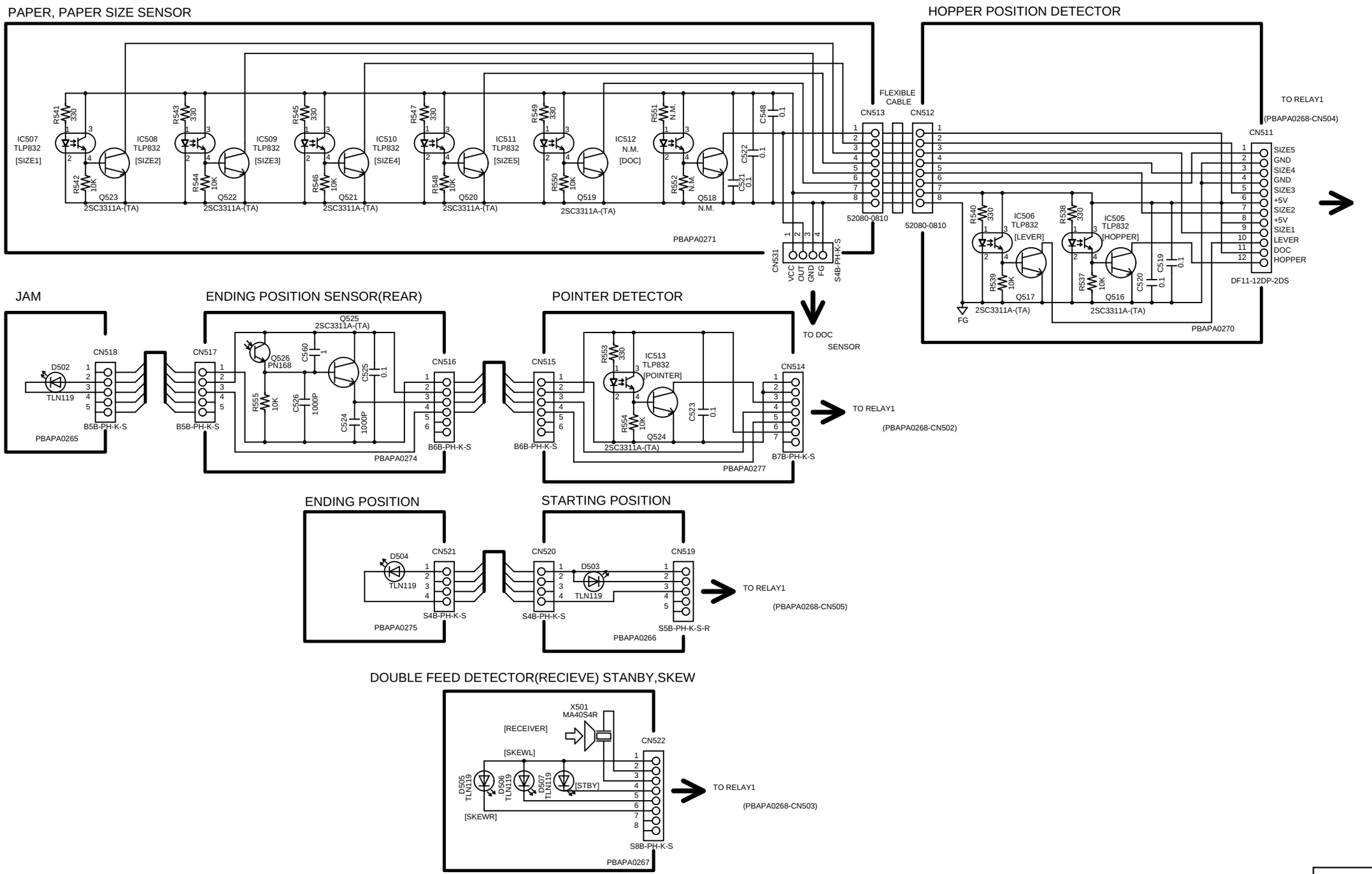

(Sensor Board)

KV-S2065

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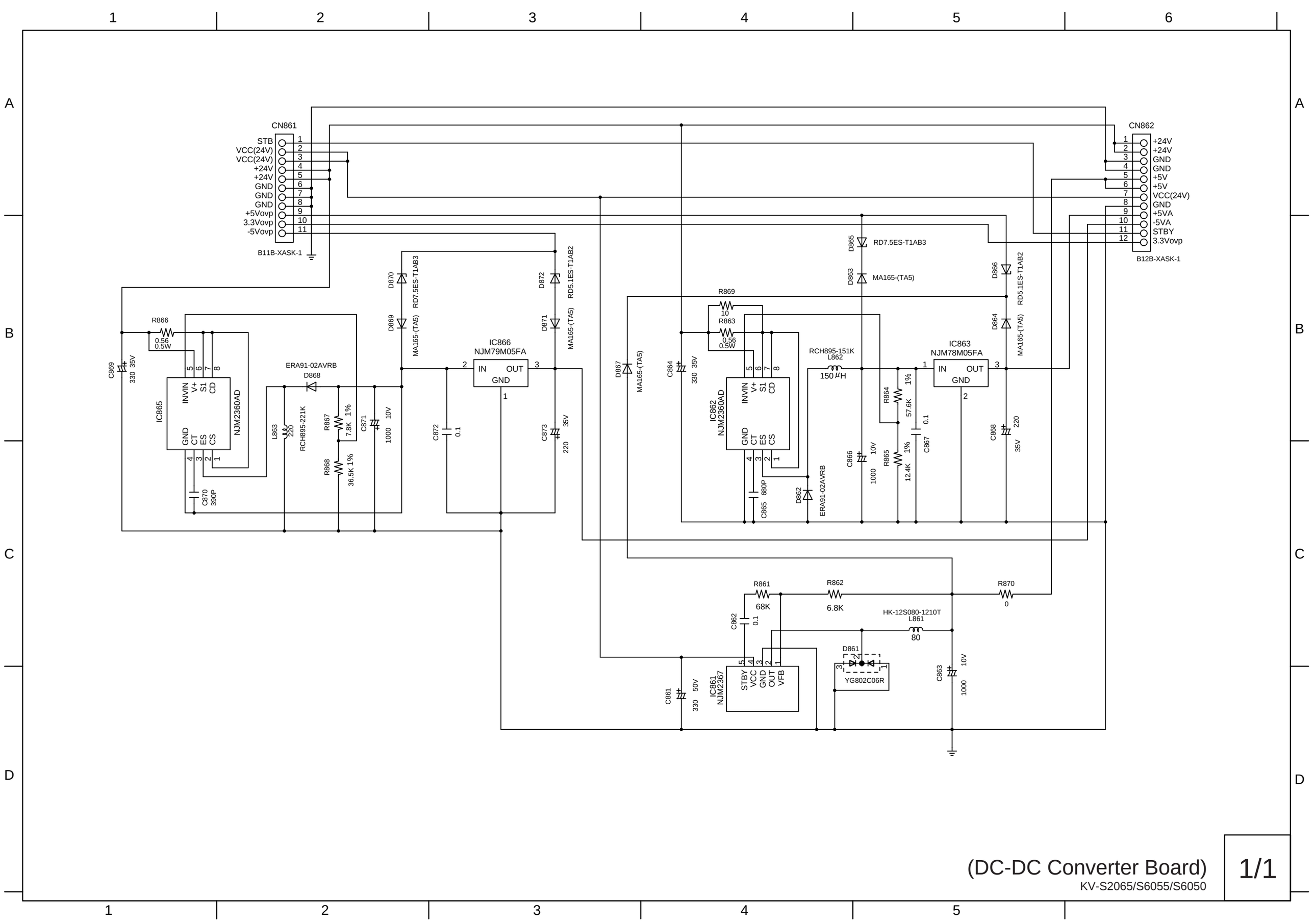
14.8 DC-DC CONVERTER and POWER Boards



(DC-DC Converter Board)

KV-S2065/S6055/S6050

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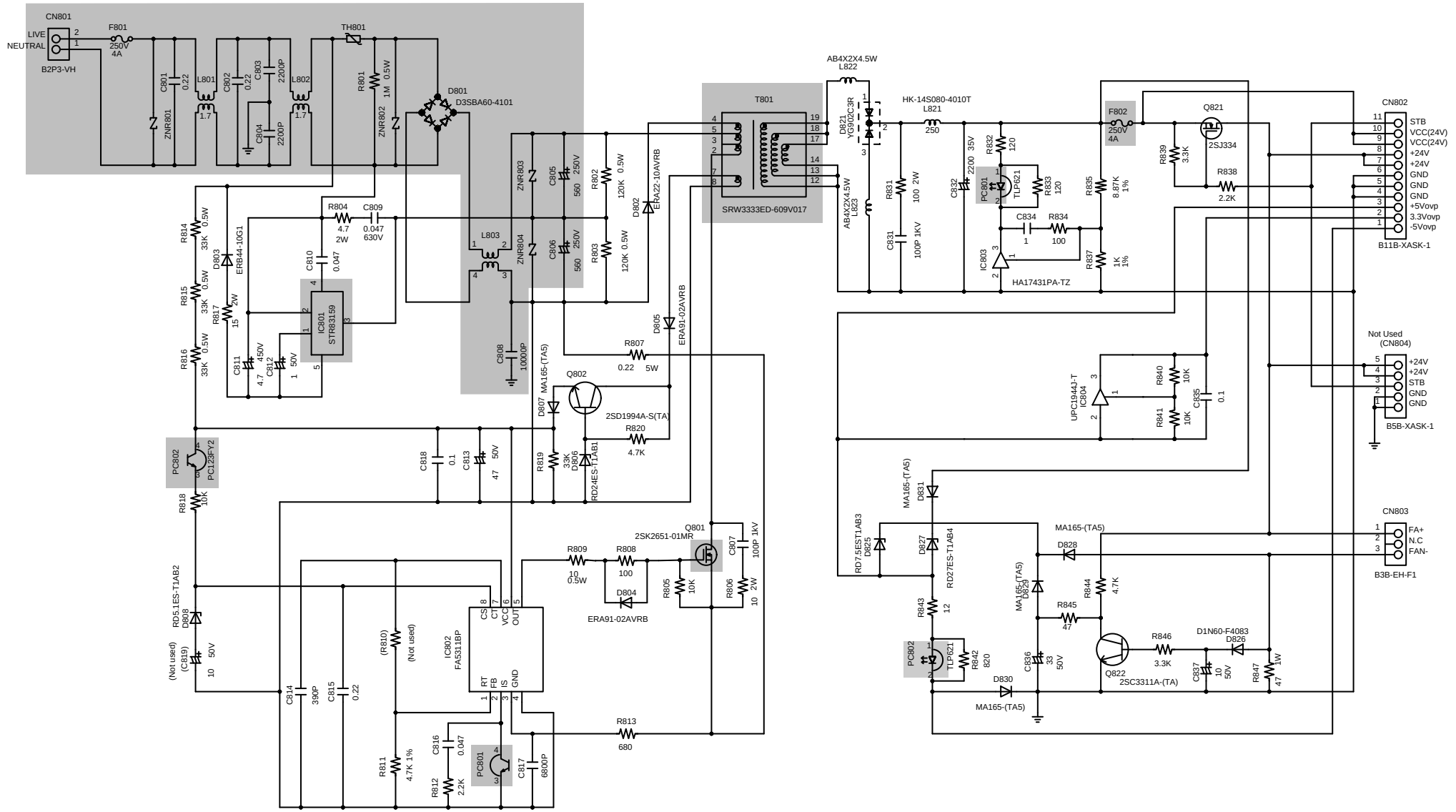

(Power Board)

KV-S2065/S6055/S6050

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15 PARTS LOCATION AND MECHANICAL PARTS LIST

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IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Note: RTL (Retention Time Limited)

The marking (RTL) in the Remark column indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention periodof availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention

After the end of this period, the assembly will no longer be available.

Note: TSCA (Toxic Substance Control Act)

The marking (TSCA) in the Remark column indicates that the parts shown in the column consist of the substances which are included in TSCA inventory.

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15.2 Power Unit and Circuit Board

15.3 Chassis and Base 1

15.4 Chassis and Base 2

15.5 Packing

15.6 Tool

15.1 Exterior

15.2 Power Unit and Circuit Board

15.3 Chassis and Base 1

15.4 Chassis and Base 2

15.5 Packing

15.6 Tool

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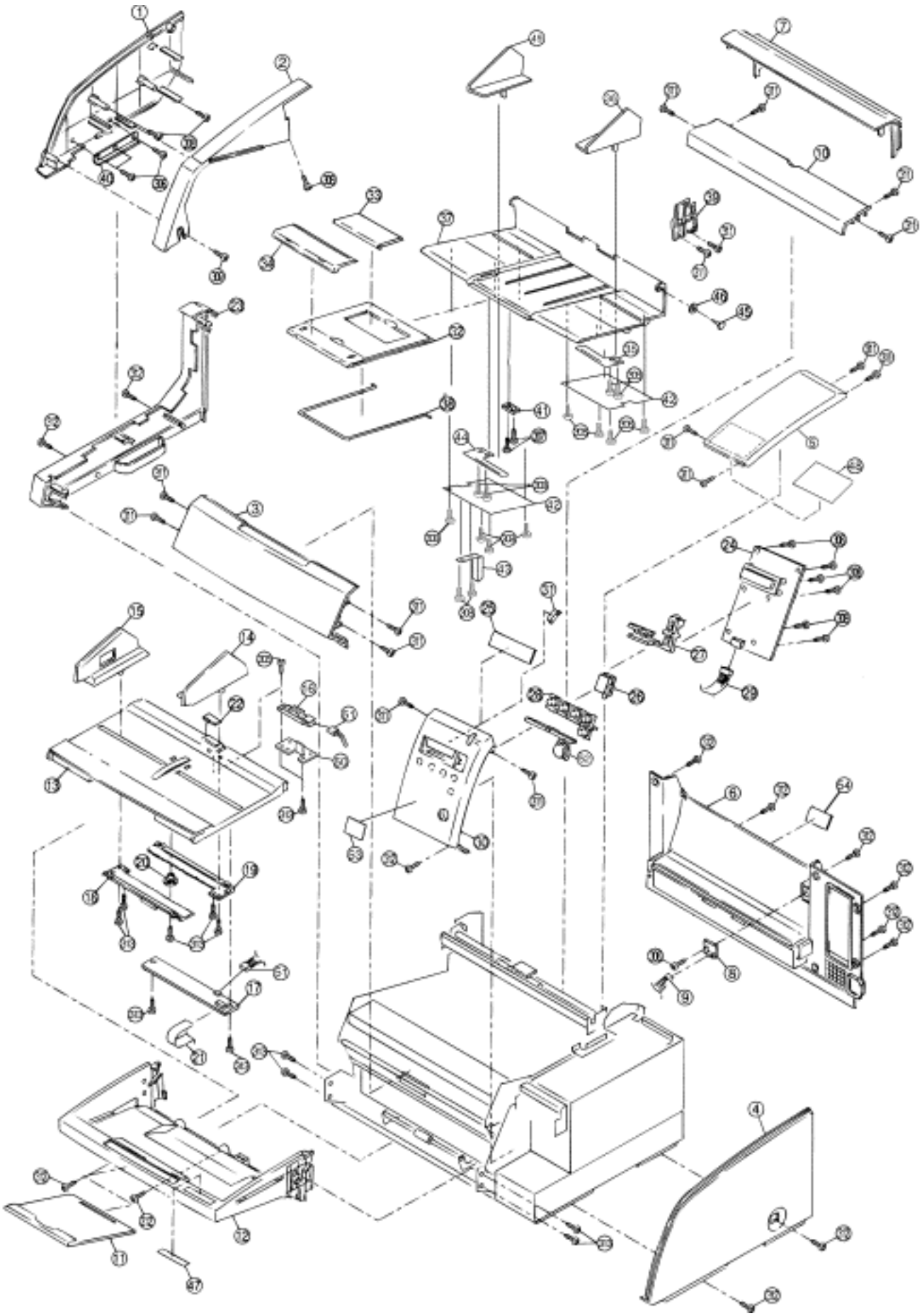
15.1 Exterior

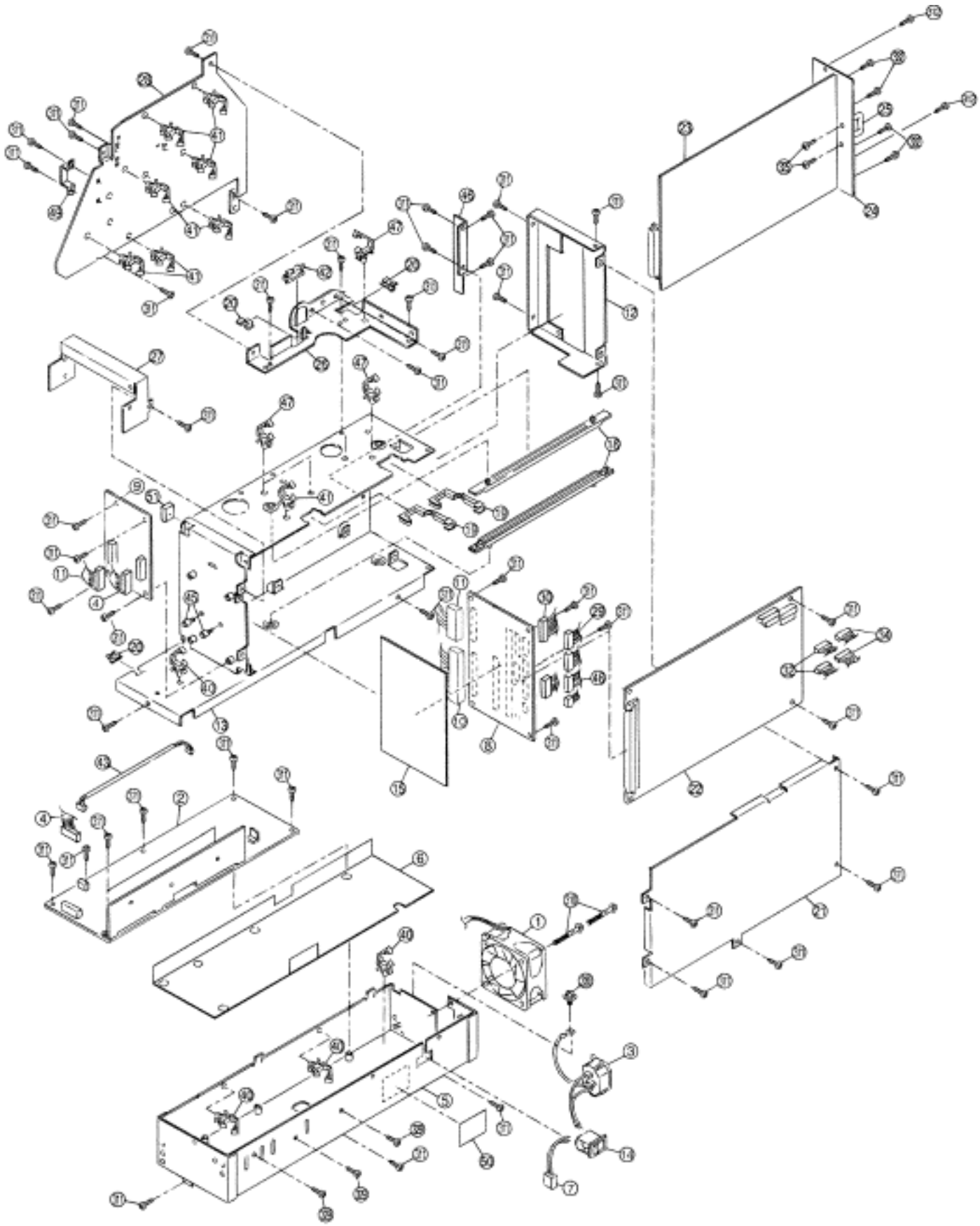


REPLACEMENT MECHANICAL PARTS LIST (Exterior)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PBKMA0039Z	Feed Unit Cover (L1) (ISO Code:PS)	⚠
2	PBKMA0052Z	Feed Unit Cover (L2) (ISO Code:PS)	⚠
3	PBKMA0038W-J	Feed Unit Cover (ISO Code:PS)	⚠
4	PBKMA0045X-J	Side Cover R (ISO Code:PS)	⚠
5	PBKMA0041Z	Side Panel R (ISO Code:PS)	⚠
6	PBKMA44Z-J10	Rear Panel (ISO Code:PS)	⚠
7	PBKMA0043Z	Post Imprinter Door (ISO Code:PS)	⚠
8	PBAPX278255B	POST IMPRINTER DOOR Board	(RTL)
9	PBJEA0548Z	Cable (CN2011-CN530)	
10	PBKMA0042Z	Exit Cover (ISO Code:PS)	⚠
11	PBKMA0049Z	Hopper Tray (ISO Code:ABS)	
12	PBKMA0047Z	Hopper Base (ISO Code:ABS)	⚠
13	PJHRB0006Z-J	Hopper Plate (For KV-S2065L) (ISO Code:ABS)	⚠
13	PJHRB006Z-J1	Hopper Plate (For KV-S2065W) (ISO Code:ABS)	⚠
14	PBHRA0194Z-J	Paper Guide (R) (For KV-S2065L) (ISO Code:ABS)	
14	PBHRA194Z-J1	Paper Guide (R) (For KV-S2065W) (ISO Code:ABS)	
15	PBHRA0193Z-J	Paper Guide (L) (For KV-S2065L) (ISO Code:ABS)	
15	PBHRA193Z-J1	Paper Guide (L) (For KV-S2065W) (ISO Code:ABS)	
16	GP2A25	Photo Interrupter	
17	PBAPX271265A	SIZE DETECTOR Board	(RTL)
18	PBDGA0044Z	Document Guide Rack (L) (ISO Code:POM)	
19	PBDGA0045Z	Document Guide Rack (R) (ISO Code:POM)	
20	PJDG50133Z-1	Pinion (ISO Code:POM)	
21	PBJEA0534Z	Cable (CN513-CN512)	
22	PBHEA0143Z	Document Fixing Pad 2	
23	PBKMA0040Z-J	Side Panel L (ISO Code:PS)	⚠
24	PBAPX262265A	PANEL Board	(RTL)
25	PBGKA0090X	Panel Sheet (ISO Code:PVC)	
26	PBHRA0187X	Mode Key (ISO Code:PC)	
27	PBHRA0190X	Select Key (ISO Code:PC)	

28	PBHRA0191W	Function Key (ISO Code:ABS)	
29	PBJEA0542Z	Cable (CN551-CN2004)	
30	PBKMA0050Z	Switch Panel (ISO Code:PS)	⚠
31	PBKMA0054Z	LED Cover (ISO Code:PS)	
32	PBHAA0035Z	Exit Extension Tray (ISO Code:PS)	
33	PBHRA0186Z	Exit Sub Stopper (ISO Code:ABS)	
34	PBHRA0188X	Exit Stopper (ISO Code:ABS)	
35	PJHRB0007Z	Exit Guide R (ISO Code:POM)	
36	PJBAB0006Z	Exit Guide R	
37	PJBAB0005Z	Stacker (ISO Code:PS)	⚠
38	PBULA0136Z	Stacker Extension Guide	
39	PBKMA0053Z	Slit Cover (ISO Code:PS)	
40	PBULA0037Z	Plate	
41	C-91-3	Magnet	
42	PJHXB0001Z	Sheet Cover (PVC)	
43	PBHMA0148Y	Plate	
44	PJHRB0008Z	Exit Guide L (ISO Code:POM)	
45	NRP-365	Rivet	
46	PJNW3110Z	Spacer	
47	PBQAA0898Z	Label	
48	PBHEA0140Y	Sheet Cover (ISO Code:PVC)	
49	PJBAB0007Z	Exit Guide L (ISO Code:ABS)	
50	PBMDA0573Z	Reflector Fitting Plate	
51	PJJRB0617Z	Cable (CN531-PHOTO INTERRUPTER)	
52	PBHRA0191X	Function Key (ISO Code:ABS)	
53	PJQTA0652Z	Label	
54	PJGTB0012Z	Name Plate (For KV-S2065L)	⚠
54	PJGTB0002Z	Name Plate (For KV-S2065W)	⚠
305	XTB3+6FFX	Screw	
307	XTS3+10GFX	Screw	
308	XTW3+U10PFX	Screw	
309	XTW3+U10PFY	Screw	
311	XTW3+U6LFX	Screw	
312	XTW3+U6LFY	Screw	
313	XTW3+U8LFX	Screw	

15.2 Power Unit and Circuit Board



REPLACEMENT MECHANICAL PARTS LIST (Power Unit and Circuit Board)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PBJEA0090Z	Fan	⚠
2	PBAPX012065A	POWER Board	(RTL) ⚠
3	PJJRB0615Z	AC Inlet Cable	⚠
4	PJJRB0608Z	Power Unit Relay Cable (CN861-CN802)	
5	PBMCX0086Y	Power Box Assembly	
6	PJHXB0002Z	POWER Board Sheet (ISO Code:PVC)	⚠
7	PJJRB0616Z	AC Switch Cable	⚠
8	PBAPX062065A	MOTHER Board	(RTL)
9	PBAPX022065A	DC-DC CONVERTER Board	(RTL)
10	PJJRB0606Z	Cable (CN2003-CN381)	
11	PJJRB0603Z	Cable (CN862-CN2009)	
12	PBMCA0091Z	Mechacon Box (Rear)	
13	PBMCX0089Y	Mechacon Box	
14	SJ-W2F4A03BB	AC Switch	⚠
15	PBMXA0038Z	MOTHER Board Sheet (ISO Code:PVC)	
18	GR-180S	Guide Rail (ISO Code:PC)	
19	EDS-17L	Edge Saddle	
20	EDS-0607M	Edge Saddle	
21	PBMCA0087Z-J	Mechacon Box Cover	
22	PBAPX03265A	MAIN CONTROL Board	(RTL)
23	PBAPX05265A	SCSI Board	(RTL)
24	PJMDB0012Z-J	SCSI Board Cover	
25	A-46-5	Handle	
26	PBHMA0128Z	Plate	
27	PBHMA0135Z	Plate	
28	PBHMA0134Z-J	Plate	
29	PBJEA0550Z	Cable (CN2005-CN506)	
30	PBJEA0549Z	Cable (CN2006-CN501)	
32	PBJEA0551Y	CIS (F) 1 Cable	
34	PBJEA0553Y	CIS (B) 1 Cable	
40	LWS1SV0BK	Locking Wire Saddle	⚠
41	LWS-1S	Locking Wire Saddle	

42	EDS-1	Edge Saddle	
43	PJJRB0659Z	Cable (CN871-Fan)	
45	KGPS-6RF	Spacer	
46	PBHMA0143Z	Plate	
47	LWS-3S	Clamper	
48	PBJEA0565Z	Cable (CN2008-POST IMPRINTER Board)	
49	PBMDA0537Z	Plate	
50	PBQAA0824Z	Label	
51	PBHEA0169Z	Rubber	
310	XTW3+U30LFX	Screw	
311	XTW3+U6LFX	Screw	
312	XTW3+U6LFY	Screw	
325	XSB26+4FX	Screw	
329	XYN3+J8FXS	Screw	
330	XYN4+F6FXS	Screw	
332	XSN25+4FX	Screw	

MEMO

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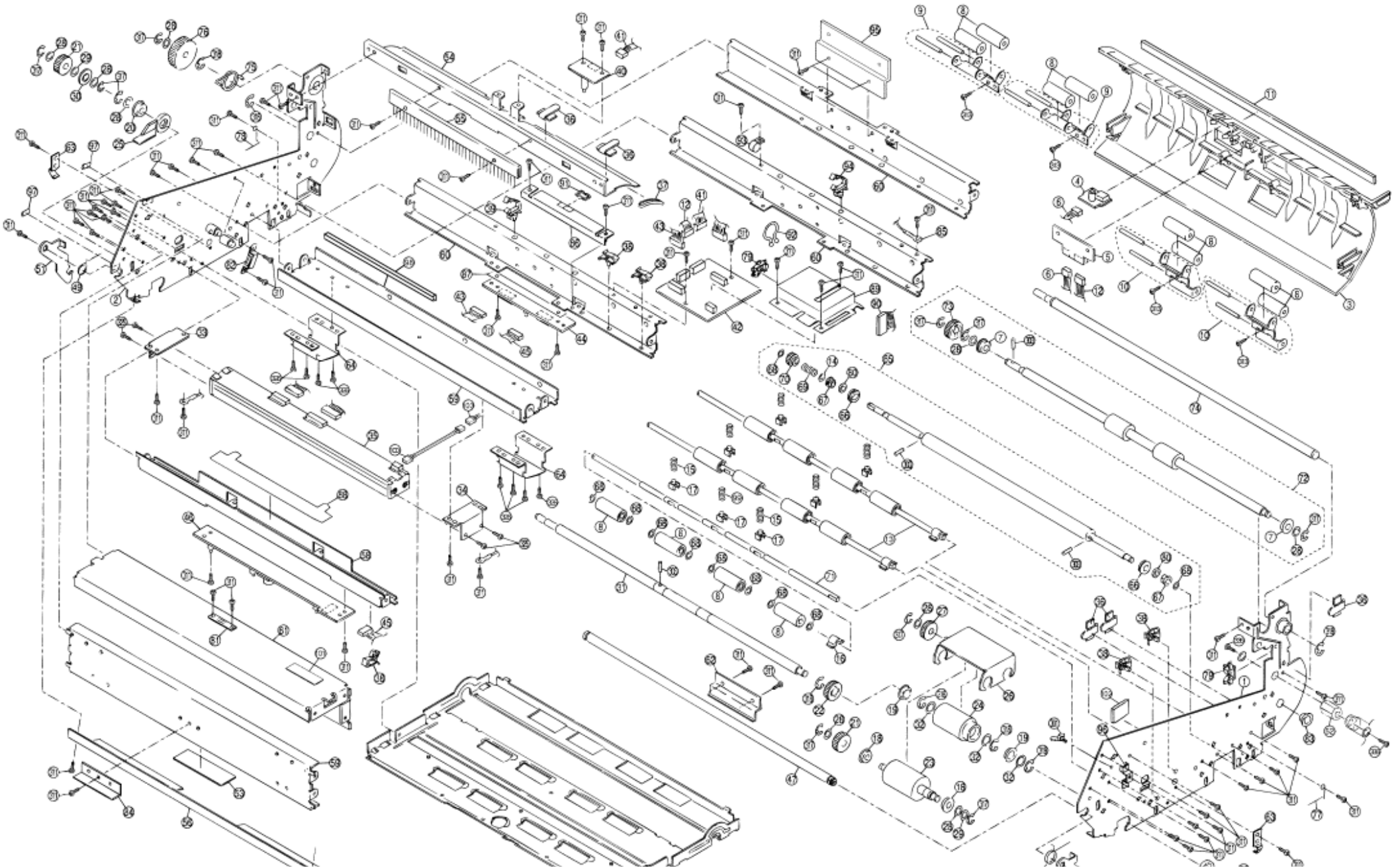
15.3 Chassis and Base 1



REPLACEMENT MECHANICAL PARTS LIST (Chassis and Base1)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PBUAX0115Z	Sub Chassis (R)	⚠
2	PBUAX0114Z	Sub Chassis (L)	⚠
3	PBHAA0034Z	Inside Conveyor (ISO Code:ABS)	
4	PBAPX263255B	ENDING (FRONT) POSITION (LED) Board	(RTL)
5	PBAPX276255B	PAPER JAM SENSOR Board	(RTL)
6	PBJEA0545Z	Cable (CN527-CN528)	
7	THF-612ZZ4.5	Ball Bearing	
8	PBDRA0029Z	Free Roller (ISO Code:POM)	
9	PBUSA0037Y-J	Spring Plate (2) Assembly	
10	PBUSA0036Y-J	Spring Plate (1) Assembly	
11	PBHRA0150Z	Ink Absolution Felt	
12	PBJEA0546Z	Cable (CN508-CN526)	
13	PBDFA0101Z	Free Roller Shaft1	
14	RWPS5-025	Spacer	
15	PBDSA0090Z	Free Roller Pressure Spring	
16	PBHRA0181Z	Free Roller Fitting Spacer (ISO Code:POM)	
17	PJDJA0016Z	Pressure Roller Bear (ISO Code:POM)	
18	B-F6-171	Bearing	
19	F-FLAW678AZZ	Bearing2	
20	F-FLW686ZZA	Bearing1	
21	PBDGA0013Z	Paper Feed Gear (ISO Code:POM)	
22	PBDGA0055Z	Separation Drive Gear (ISO Code:POM)	
23	PBDRA0064Z	Paper Feed Roller	
24	PBDRA0065Z	Separation Roller	
25	PBHRA0119Y	Paper Feed Lever (ISO Code:POM)	
26	PBMDX0462Z	Paper Feed Cover	
27	PJDG50326Z	Gear (P/U) (ISO Code:POM)	
28	RWPS6-025	Spacer	

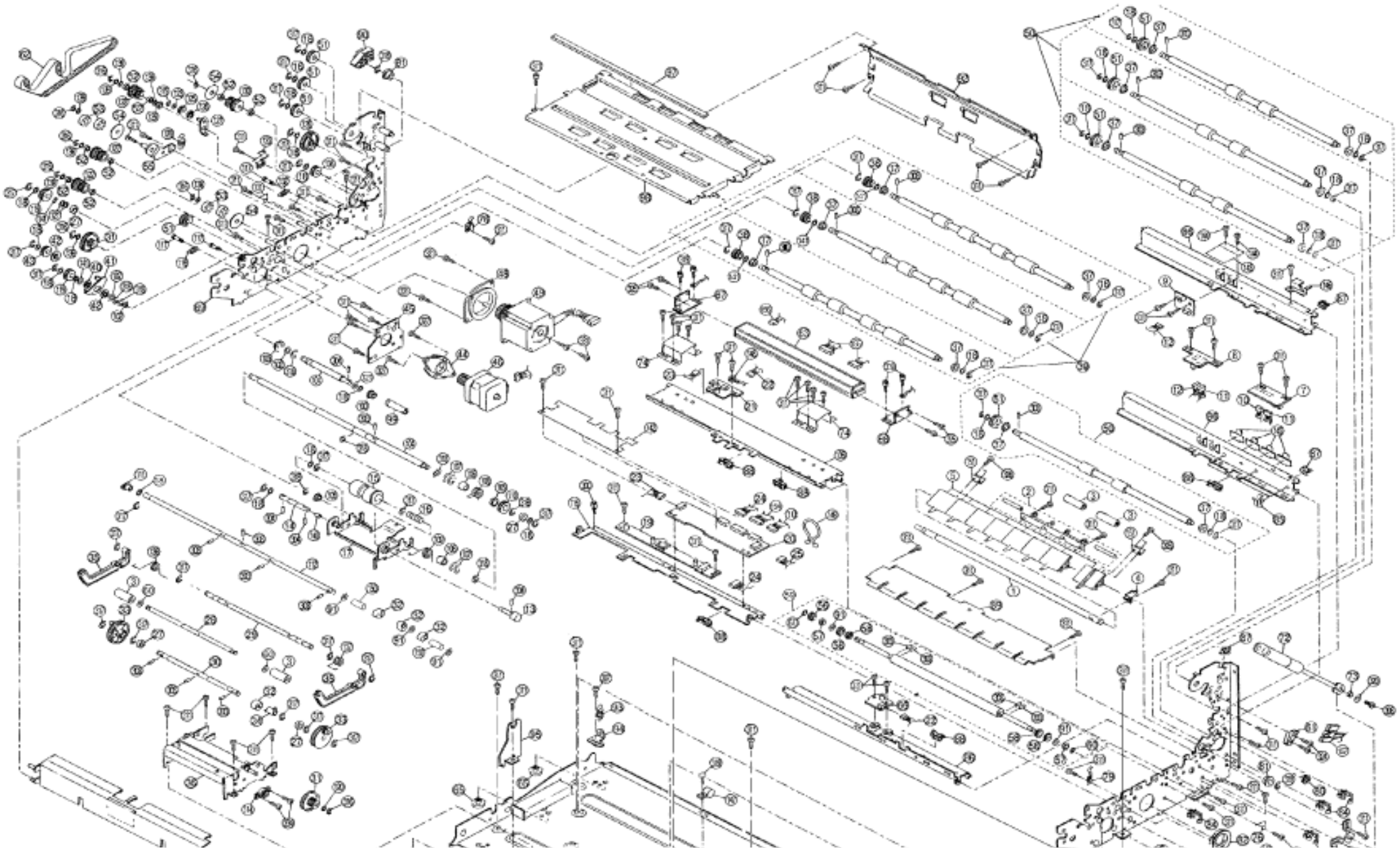
29	RWPS6-050	Spacer	
30	PBDRA0030Z	Pitch Roller 1 (ISO Code:POM)	
31	PBDFA0133Z	Separation Roller Shaft	
32	RWPS8-025	Spacer	
33	PBMDA0458Z	CIS Fitting Plate (L)	
34	PBMDA0457Z	CIS Fitting Plate (R)	
35	EQ4R219Q1	CIS for KV-S2065L	
35	EQ4R300Q1	CIS for KV-S2065W	
36	K-103G	Clamper	
37	KG-010-L30	Bush	
38	YMC10-0	Clamp	
39	LWS-1S	Locking Wire Saddle	
40	PBAPX264255B	ENDING (FRONT) POSITION SENSOR Board	(RTL)
41	PBJEA0547Z	Cable (CN507-CN529)	
42	PBAPX269255B	RELAY (UPPER) Board	(RTL)
43	PBJEA0544Z	Cable (CN509-CN523)	
44	PBAPX272255B	STARTING POSITION SENSOR Board	(RTL)
45	PBJEA0543Z	Cable (CN524-CN525)	
46	PBAPX273255B	WAITING SENSOR Board	(RTL)
47	PBDFA0096Z	Release Shaft	
48	PBDSA0089Z	Release Lever Spring (R)	
49	PBDSA0088Z	Release Lever Spring (L)	
50	PJMDB0015Z	Release Lever (R)	
51	PJMDB0016Z	Release Lever (L)	
52	PBDFA0294Z	Shaft	
53	PBHEA0106Z	Magnet Sheet	
54	PBMDA0461Z-J	Discharge Brush Fitting Plate	
55	PBMEA0010Z	Discharge Brush	
56	PBUEA0101Z-J	Conveyor (Upper) 1	
57	PBUEA0102Z-J	Conveyor (Lower) 2	
58	PBULA0132Y	Reinforcement Plate (U) 1	
59	PBULA0133Z	Reinforcement Plate (U) 2	
60	PBULA0134Z	Reinforcement Plate (U) 3	
61	PBULA0135Y	Reinforcement Plate (U) 4	

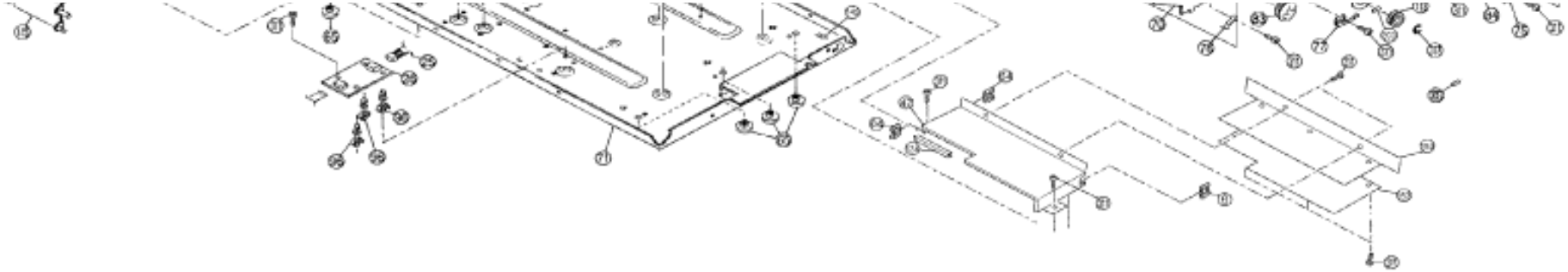
62	PBUL30Z	Lock Release Plate	
63	PBUSA0038Z	Conveyor Spring	
64	PBHEA0107Z	Sub Sheet for KV-S2065L (ISO Code:PVC)	
65	PBDRA0112Y-J	Sensor Roller for KV-S2065L	
65	PBDRA0101X-J	Sensor Roller for KV-S2066W	
66	PBDRA0073Z	Platen Pitch Roller (ISO Code:POM)	
67	PBDJA0014Z	Platen Spacer	
68	PJNW4111Z	Spacer	
69	PBDSA0036Y	Spring	
70	PBDGA0061Z	Platen Gear (ISO Code:POM)	
71	PJDFB0026Z	Free Roller Shaft 3	
72	PBDRX03S2065	Exit Roller	
73	PBDGA0008Y	Scanner Drive Gear (ISO Code:POM)	
74	PBDFA0095Z	Release Support Shaft	
75	PBDSA0091Z	Feed Unit Release Spring	
76	PBDGA0030Z	Idler Gear-1BD (ISO Code:POM)	
77	PBDSA0095Y	Platen Spring (R)	
78	PBDSA0098Y	Platen Spring (L)	
79	EDS-1	Edge Saddle	
80	PJNW525Z	Spacer	
81	C-91-3	Magnet	
82	C-54-2	Magnet	
83	TB-1216	Bush	
84	PBHMA0142Z	Plate	
85	PBJEA0587Z	Earth Cable	
86	PBHMA0149Z	Plate	
87	PBHEA0138Z	Sheet	
88	PBHEA0125Z	Sheet	
89	PBHMA0141Z	Plate	
90	PBJEA0564Z	Cable (CN2007-PRE IMPRINTER Board)	
91	EDS-0607M	Edge Saddle	
92	TMM6463	Clamper	
93	AL4	Clamper	
94	LWS-3S	Clamper	

95	PBULA0161Z	Plate	
96	PBHMA0171Z	Transport Plate	
97	PBHEA0186Z	Rubber	
98	CE-010L-L220	Bush	
99	PJDSB0005Z	Free Roller Pressure Spring	
100	PJJRB0601Y	Cable	
101	PJQTB0003Z	Transport Label 1	
102	PJQTB0004Z	Transport Label 2	
103	PJJRB0660Z	Cable	
301	XVP4F20FX	Wing Bolt	
303	XPJ2C10VW	Pin	
311	XTW3+U6LFX	Screw	
313	XTW3+U8PFX	Screw	
317	XUC5FY	E-Ring	
318	XUC6FY	E-Ring	
325	XYN26+C6FX	Screw	
326	XYN3+B6FX	Screw for KV-S2065L	
336	XYN4+F10FX	Screw	

TOP PREVIOUS NEXT

15.4 Chassis and Base 2





REPLACEMENT MECHANICAL PARTS LIST (Chassis and Base2)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PBDFA0094Z	Pointer Shaft	
2	PBUSA0035Y-J	Roller Shaft Assembly	
3	PBDRA0029Z	Free Roller (ISO Code:POM)	
4	PBHMA0133Z	Pointer Change Plate	
5	PBHRA0117Z	Pointer (ISO Code:PC)	
6	EDS-1717u	Edge Saddle	
7	PBAPX277255B	POINTER DETECTOR Board	(RTL)
8	PBAPX274255B	ENDING (REAR) POSITION SENSOR Board	(RTL)
9	PBAPX265255B	PAPER JAM LED Board	(RTL)
10	PBJEA0538Z	Q´ty(1)	
11	PBJEA0537Z	Cable (CN515-CN516)	
12	PBJEA0536Z	Cable (CN517-CN518)	
13	PBDEA0117Z	Retard Roller Fitting Pin	
14	PBDFA0108Z	Retard Intermediate Shaft2	
15	PBDRA0066Z	Retard Roller	
16	PBDSA0102Y	Retard Roller Fitting Spring	
17	PBMDX0463Y	Retard Plate	
18	RWPS6-025	Spacer	
19	PBAPX267255B	WAITING LED Board	(RTL)

20	PBAPX268255B	RELAY (LOWER) Board	(RTL)
21	PBAPX266255B	STARTING POSITION LED Board	(RTL)
22	PBJEA0539Z	Cable (CN520-CN521)	
23	PBJEA0540Z	Cable (CN505-CN519)	
24	PBJEA0541Z	Cable (CN503-CN522)	
25	PBJEA0535Z	Cable (CN504-CN511)	
26	PBAPX270255B	HOPPER POSITION SENSOR Board	(RTL)
27	B-F6-171	Bearing	
28	PJDFB0003Z	Hopper Pressure Shaft	
29	PBDFA0104Z	Hopper Shaft	
30	PBDFA0105Z	Hopper Cam Shaft	
31	PBDGA0033Y	Slow Shift Gear (ISO Code:POM)	
32	PBDGA0056Z	Hopper Powerful Cam (ISO Code:POM)	
33	PBDGA0065Z	Hopper Cam (ISO Code:POM)	
34	PBHRA0023Z	Hopper Cam Shutter (ISO Code:ABS)	
35	PBKMA0046Z	Hopper Arm (ISO Code:POM)	
36	PBMDX0466Z	Hopper Plate Assembly	
37	THF-612ZZ4.5	Ball Bearing	
38	PBDGA0057Z	Drive Roller Gear (ISO Code:POM)	
39	PBDRX01S2065	Driver Roller	
40	PBDRA0030Z	Pitch Roller (ISO Code:POM)	
41	PBMDX0465Z	Joint Plate Assembly	
42	PBDRA0031Z	Pitch Roller (ISO Code:POM)	
43	PJDG50326Z	Gear (P/U) (ISO Code:POM)	
44	RF1401-A5	Motor Mount	
45	PBMDA0459Z	Motor Fitting Plate	
46	103H549-0448	Paper Feed Motor	⚠
47	PJMDB0011Z	DRIVE Board Cover	

48	PBHE28Z	Damper	
49	PK268-02AC57	Conveyor Motor	⚠
50	PBDRX02S2065	Conveyor Roller	
51	PBDGA0008Y	Scanner Drive Gear (ISO Code:POM)	
52	DDL-850ZZH	Ball Bearing (5-8)	
53	DR-20-H5	Tension Roller	
54	PBHMA0125Z	Belt Holder (ISO Code:PA)	
55	PBMDX0468Z	Tension Plate Assembly	
56	PBDGA0061Z	Platen Gear (ISO Code:POM)	
57	PBDJA0020Z	Platen Spacer	
58	PBDRA0073Z	Platen Pitch Roller (ISO Code:POM)	
59	PBDRA0013Y-J	Sensor Roller for KV-S2065L	
59	PBDRA0102X-J	Sensor Roller for KV-S2065W	
60	PJNW4111Z	Spacer	
61	SS-5GL-3T	Micro Switch	
62	B80S2M530	Belt	
63	EQ4R219Q1	CIS for KV-S2065L	
63	EQ4R300Q1	CIS for KV-S2065W	
64	EDS-1208U	Edge Saddle	
65	NF35A7	Rubber Foot	
66	PBAPX275255B	ENDING (REAR) POSITION LED Board	(RTL)
67	PBMDA0457Z	CIS Fitting Plate (L)	
68	PBMDA0458Z	CIS Fitting Plate (R)	
69	PBUAX0112Y	Main Chassis (L)	⚠
70	PBUAX0113Y	Main Chassis (R)	⚠
71	PBUEX0096Y	Bottom Plate	⚠
72	GS0203042D	Damper	
73	PBHMA0106Z	Gas Spring Collar	

74	PBHEA0107Z	Sub Sheet KV-S2065L only (ISO Code:PVC)	
75	PBMDA0455Z	Gas Spring Fitting Plate	
76	PBDSA0099Z	Platen Hold Spring (R)	
77	PBUS8Z	Conveyor Spring	
78	PBDSA0079Z	Conveyor Lock Spring (R)	
79	PBDSA0080Z	Conveyor Lock Spring (L)	
80	TB-9513	Bush	
81	PBFV4Z	Bushing (ISO Code:POM)	
82	TB-2533	Bush	
83	TB-1926	Bush	
84	LWS-1S	Locking Wire Saddle	
85	YMC10-0	Clamp	
86	PBULA0131Z	Reinforcement Plate (L) 3	
87	EDS-0607M	Edge Saddle	
88	EDS-1	Edge Saddle	
89	PBUEX0100Z	Exit Conveyor	
90	PBHRA0180Z	Pointer Change Knob (ISO Code:ABS)	
91	PJNW525Z	Spacer	
92	PBUEA099Z-J1	Conveyor (Outside)	
93	PBDSA0126Y	Spring	
94	PBMDA0111Z	Attachment Fitting	
95	PBMDA0460Z	Support Plate	
96	WLS12-0	Bushing	
97	PBHRX0150Z	Ink Absolution Felt Assembly	
98	PBUEX0098Y	Conveyor (Lower) 2 Assembly	
99	PBHRA0019Z	Link Spacer (ISO Code:PC)	
100	PBFU3Z	Roller Shaft Base	
101	PBDFA0099Z	Hopper Cam Shaft	

102	RWPS8-025	Spacer	
103	B-F8-8	Spacer	
104	PBDFA0110Z	Retard Unit Fitting Shaft)	
105	F-FLAW678AZZ	Bearing2	
106	B-S8-5	Spacer	
107	RWPS10-100	Spacer	
108	PBDSA0125Z	Spring	
109	PBDSA0092Z	Retard Pressure Spring	
110	PBDGA0055Z	Separation Drive Gear	
111	PBHRA0183Z	Adjusting Knob (ISO Code:ABS)	
112	PBDFA0100Y	Retard Regulation Shaft	
113	PBDG3Z	Cam (ISO Code:POM)	
114	NF-2G50C	Oil Damper	
115	PBUEX0097Z-J	Conveyor (Lower) 1 Assembly	
116	PBULA0129Z	Reinforcement Plate (L) 1	
117	PBHDA0001Z	Screw	
118	PBDSA0093Z	Spring	
119	PBDGA0013Z	Paper Feed Gear (ISO Code:POM)	
120	RWPS5-025	Spacer	
121	RWPS6-100	Spacer	
122	PBDGA0058Z	Drive Pulley Gear (ISO Code:POM)	
123	RWPS4-025	Spacer	
124	CE-010L-L80	Bush	
125	PBDGA0062Z	Platen Gear (ISO Code:POM)	
126	PBDRA0076Z	Pitch Roller (ISO Code:POM)	
127	PBMDX0464Z	Platen Joint Plate	
128	PBDSA0094Z	Tension Spring	
129	PBHRA0182Z	Spacer (ISO Code:POM)	

130	PBDGA0059Z	Pulley Gear (ISO Code:POM)	
131	PBDSA0100Z	Spring	
132	PBDSA0106Z	Spring	
133	PBUSA0034Z	Pointer Change Spring	
134	PBDGA0038Z	Retard Gear (ISO Code:POM)	
135	PBDGA0032Z	Gear (ISO Code:POM)	
136	PBDSA0103Z	Hopper Spring2	
137	PBDSA0096Z	Hopper Spring1	
138	PBULA0130Z	Reinforcement Plate (L) 2	
139	RWPS5-10025	Spacer	
140	B-S6-146	Spacer	
141	RWPS6-050	Spacer	
142	PBHEA0141Z	Sheet Cover	
143	PBHEA0111Z	Sheet Cover	
144	VJF0036	Rivet	
145	K-103G	Clamper	
146	PBMDA0533Z	Plate	
147	AL4	Clamper	
148	CS-2	Clip	
149	TMM6463	Clamper	
150	MWSP6-22-J	Spacer	
151	PBHEA0173Z	Sheet	
152	PJMDB0010Z	DRIVE Board Fitting Plate	
153	PBAPX042065A	DRIVE Board	(RTL)
154	PBJEA0549Z	Cable (CN2006-CN501)	
155	PBJEA0553Y	Cable CIS (B) 1	
156	PJJRB0602Z	Cable CIS (B) LED	
157	PJJRB0605Z	Cable Front Door SW	

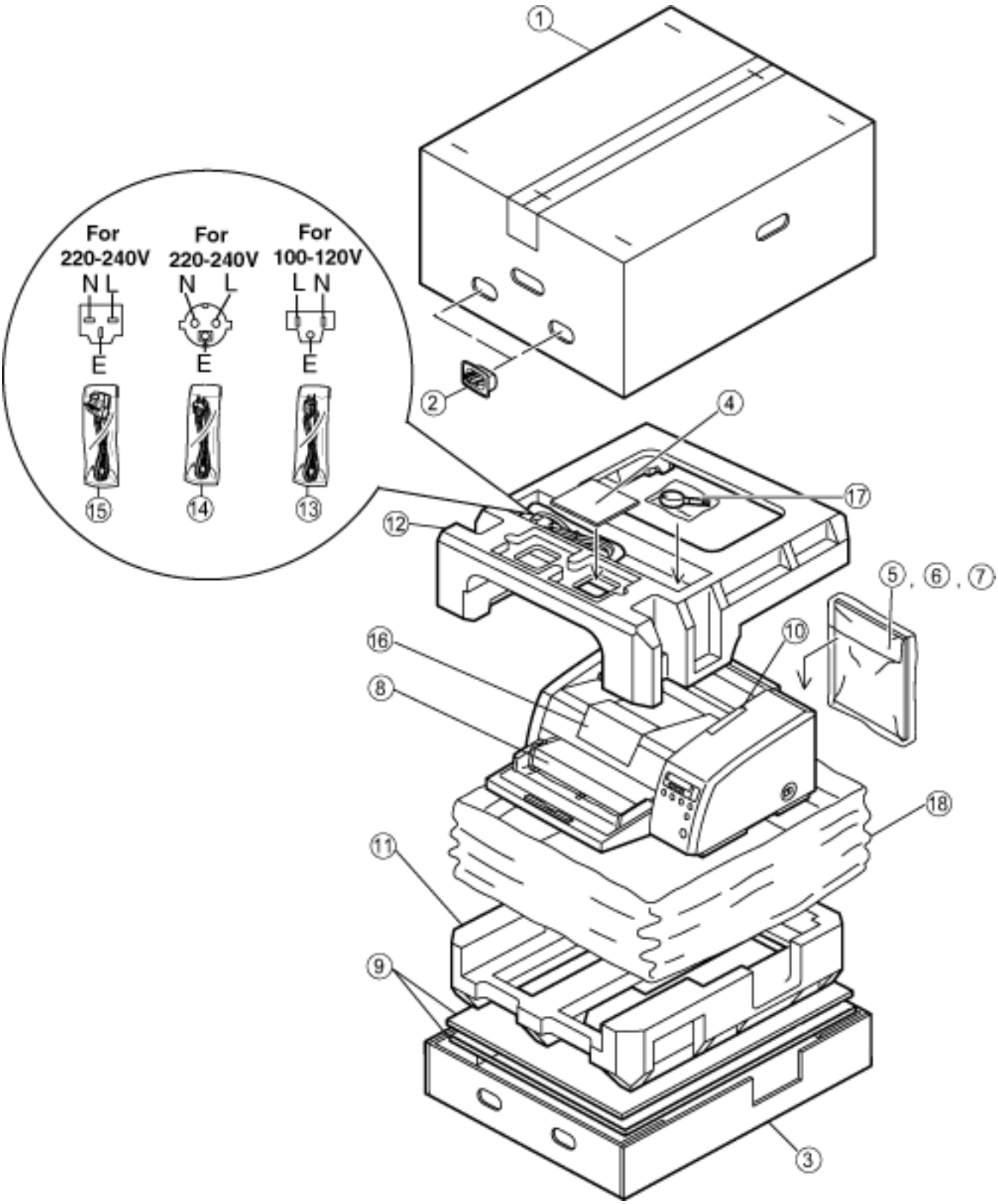
300	PBHMA0185Z	Spacer	
303	XPJ2C10VW	Pin	
304	XPL2B12WVW	Spring Pin	
306	XTB4+10FFY	Screw	
307	XTW3+U4LFX	Screw	
311	XTW3+U6LFX	Screw	
315	XUC3FY	E-Ring	
316	XUC4FY	E-Ring	
317	XUC5FY	E-Ring	
318	XUC6FY	E-Ring	
319	XVE3BK6FPS	Screw	
320	XWG6	Washer	
324	XYN23+J12FX	Screw	
325	XYN26+C6FX	Screw	
327	XYN3+J6FX	Screw	
328	XYN3+J8FX	Screw	
331	XYN4+J10FXS	Screw	
334	XSN2+5	Screw	

MEMO

TOP PREVIOUS NEXT

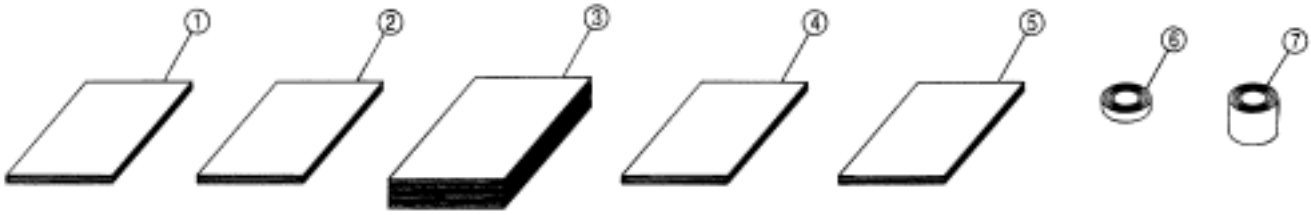
15.5 Packing

TOP PREVIOUS NEXT



TOP PREVIOUS NEXT

15.6 Tool



REPLACEMENT MECHANICAL PARTS LIST (Packing)

Ref. No.	Part No.	Part Name & Description	Remarks
1	PJPGB0004Z-L	Outer Carton for S2065L	
1	PJPGB0004Z-W	Outer Carton for S2065W	
2	HP-601W2	Joint (ISO Code:PP)	
3	PBPGA0322Y	Carton	
4	PJQXB0001Z	Installation Manual/Driver Software	
5	PJQMB0021Z	Maintenance Manual	
6	PBQX70014Z	Warranty Card	
7	PBHSA0055Z	Cleaning Paper	(TSCA)
8	PBPNA0167Y	Cushion	
9	PJPNB0019Z	Pad	
10	PBPEA0029Z	Spacer	
11	PJPQB0001Z	Cushion (ISO Code : EPP)	
12	PJPQB0002Z	Cushion (ISO Code : EPP)	
13	PBJEA0070Z	AC Cord (120V) for Type A-2	⚠
14	PBJA5Z	AC Cord (240V) for Type C-4	⚠
15	PBJA6Z	AC Cord (240V) for Type BF	⚠
16	PBQX90132Y	Label	
17	PJIUA0001Z	Blower	
18	PBPPA0022Z	Cover (ISO Code:PE)	

REPLACEMENT MECHANICAL PARTS LIST (Tool)

Ref. No.	Part No.	Part Name & Description
1	PBQX90095Z-J	Test Chart A (A4) (10 pieces)

2	PBQX90113Z-J	Shading Paper (10 pieces)
3	PBQX90121Z-J	Adjustment Paper (50 pieces)
4	PBQX90104Z-J	Test Chart A (10 pieces)
5	PBQX90105Z-J	Test Chart B (10 pieces)
6	T4E30725-2	Polyester tape (19 mm)
7	T4E307100	Polyester tape (100 mm)

TOP PREVIOUS NEXT

16 ELECTRICAL REPLACEMENT PARTS LIST

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Note: RTL (Retention Time Limited)

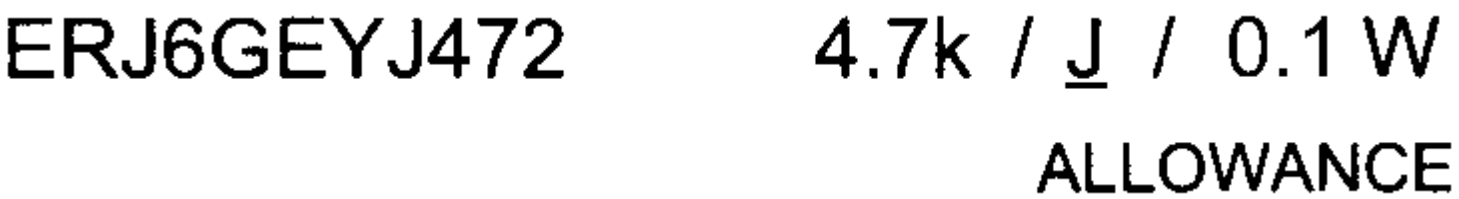
The marking (RTL) in the Remark column indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention periodof availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention

After the end of this period, the assembly will no longer be available.

Abbreviation of Part No. and Description

1. Resistor

Example



ALLOWANCE
F : ±1%
G : ±2%
J : ±5%
K : ±10%
M : ±20%

2. Capacitor

Example

ALLOWANCE
C : ±0.25pF
D : ±0.5pF
F : ±1pF
J : ±5%
K : ±10%
L : ±15%
M : ±20%
P: -100%, -0%
Z : -80%, -20%

16.1 MAIN CONTROL Board

16.2 SCSI Board

16.3 MOTHER Board

16.4 DRIVE Board

16.5 PANEL Board

16.6 RELAY (LOWER) Board

16.7 RELAY (UPPER) Board

16.8 HOPPER POSITION Board

16.9 SIZE DETECTOR Board

16.10 WAITING [LED] Board

16.11 POINTER Board

16.12 ENDING (REAR) SENSOR Board

16.13 PAPER JAM (LED) Board

16.14 START POSITION [LED] Board

16.15 ENDING (REAR) LED Board

16.16 STARTING POSITION SENSOR Board

16.17 WAITING SENSOR Board

16.18 ENDING (FRONT) SENSOR Board

16.19 PAPER JAM SENSOR Board

16.20 ENDING (FRONT) LED Board

16.21 POST IMPRINTER DOOR Board

16.22 DC-DC CONVERTER Board

16.23 POWER Board

16.1 MAIN CONTROL Board

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R1000/1001	ERJ6GEYJ470	47 / J / 0.125W
R1002/1003	ERJ3GEYJ100	10 / J / 0.1W
R1004/1005	ERJ6GEYJ181	180 / J / 0.125W
R1006-1009	ERJ3GEYJ102	1k / J / 0.1W
R1010/1011	ERJ6GEYJ181	180 / J / 0.125W
R1012/1013	ERJ3GEYJ102	1k / J / 0.1W
R1014-1017	ERJ3GEYJ223	22k / J / 0.1W
R1018-1021	ERJ3GEYJ561	560 / J / 0.1W
R1022-1025	ERJ3GEYJ470	47 / J / 0.1W
R1026/1027	ERJ3GEYJ223	22k / J / 0.1W
R1028/1029	ERJ3GEYJ103	10k / J / 0.1W
R1032-1039	ERJ3GEYJ220	22 / J / 0.1W
R1040	ERJ3GEYJ272	2.7k / J / 0.1W
R1041	ERJ3GEYJ222	2.2k / J / 0.1W
R1042-1049	ERJ3GEYJ103	10k / J / 0.1W
R1050	ERJ3GEYJ222	2.2k / J / 0.1W
R1051-1054	ERJ3GEYJ220	22 / J / 0.1W
R1055/1056	ERJ3GEYJ101	100 / J / 0.1W
R1057	ERJ3GEYJ472	4.7k / J / 0.1W
R1058	ERJ3GEYJ101	100 / J / 0.1W
R1059/1060	ERJ3GEYJ220	22 / J / 0.1W
R1061	ERJ3GEYJ472	4.7k / J / 0.1W
R1062-1064	ERJ3GEYJ220	22 / J / 0.1W
R1065	ERJ3GEYJ103	10k / J / 0.1W
R1066-1068	ERJ3GEYJ220	22 / J / 0.1W
R1069-1077	ERJ3GEYJ103	10k / J / 0.1W
R1078-1083	ERJ3GEYJ681	680 / J / 0.1W
R1084-1091	ERJ3GEYJ103	10k / J / 0.1W
R1094/1095	ERJ3GEYJ470	47 / J / 0.1W
R1098	ERJ3GEYJ223	22k / J / 0.1W
R1099	ERJ3GEYJ472	4.7k / J / 0.1W

R1100	ERJ3GEYJ470	47 / J / 0.1W
R1101/1102	ERJ3GEYJ101	100 / J / 0.1W
R1103-1105	ERJ3GEYJ103	10k / J / 0.1W
R1106	ERJ3GEYJ220	22 / J / 0.1W
R1107	ERJ3GEYJ101	100 / J / 0.1W
R1108-1110	ERJ3GEYJ220	22 / J / 0.1W
R1111-1115	ERJ3GEYJ223	22k / J / 0.1W
R1116	ERJ3GEYJ101	100 / J / 0.1W
R1117-1120	ERJ3GEYJ220	22 / J / 0.1W
R1121-1124	ERJ3GEYJ103	10k / J / 0.1W
R1125	ERJ3GEYJ101	100 / J / 0.1W
R1126-1129	ERJ3GEYJ103	10k / J / 0.1W
R1130	ERJ3GEYJ104	100k / J / 0.1W
R1131	ERJ6GEYJ105	1M / J / 0.125W
R1132/1133	ERJ3GEYJ472	4.7k / J / 0.1W
R1134/1135	SR73K2ETD0.1	Resistor
R1138	ERJ3GEYJ103	10k / J / 0.1W
R1141	ERJ3GEYJ101	100 / J / 0.1W
R1142-1144	ERJ3GEYJ221	220 / J / 0.1W
R1150	ERJ3GEYJ220	22 / J / 0.1W
R1151/1152	ERJ3GEYJ103	10k / J / 0.1W
R1153/1154	ERJ3GEYJ101	100 / J / 0.1W
R1158	ERJ3GEY0R00	0-ohm jumper
R1162	ERJ3GEYJ103	10k / J / 0.1W
Z1000	MNR14E0AJ472	Resistor Array
Z1001/1002	MNR14E0AJ220	Resistor Array
Z1005	MNR14E0AJ472	Resistor Array
Z1008-1046	MNR14E0AJ220	Resistor Array
Z1055/1056	MNR14E0AJ103	Resistor Array
Z1057/1058	MNR14E0AJ472	Resistor Array
Z1059-1062	MNR14E0AJ220	Resistor Array
Z1063	MNR14E0AJ103	Resistor Array
Z1064-1076	MNR14E0AJ220	Resistor Array
Z1077-1082	MNR14E0AJ103	Resistor Array
Z1083/1084	MNR14E0AJ220	Resistor Array
Z1105-1107	MNR14E0AJ220	Resistor Array
Z1108-1112	MNR14E0AJ103	Resistor Array
CAPACITORS		

C1000	ECUX1E104ZFV	0.1 / Z / 25V
C1001	ECEV1AA221	220 / 25V
C1002/1003	ECUX1E104ZFV	0.1 / Z / 25V
C1005/1006	ECUX1E104ZFV	0.1 / Z / 25V
C1008-1010	ECUX1E104ZFV	0.1 / Z / 25V
C1011	ECEV1AA221	220 / 10V
C1012-1015	ECUX1E104ZFV	0.1 / Z / 25V
C1016-1023	ECUX1H470JCV	47P / J / 50V
C1024/1025	ECUX1E104ZFV	0.1 / Z / 25V
C1026-1028	ECUX1H102KBV	1000P / K / 50V
C1029/1030	ECEV1AA221	220 / 10V
C1031-1034	ECUX1E104ZFV	0.1 / Z / 25V
C1035/1036	ECEV1AA101SP	100 / 10V
C1037/1038	ECUX1E104ZFV	0.1 / Z / 25V
C1043-1052	ECUX1E104ZFV	0.1 / Z / 25V
C1053	ECEV1EA4R7SR	4.7 / 25V
C1054-1065	ECUX1C105ZFW	1 / Z / 16V
C1066/1067	ECUX1E104ZFV	0.1 / Z / 25V
C1068	ECUX1H101JCV	100P / J / 50V
C1070	ECUX1E104ZFV	0.1 / Z / 25V
C1071-1073	ECUX1H101JCV	100P / J / 50V
C1074-1082	ECUX1E104ZFV	0.1 / Z / 25V
C1083-1084	ECUX1H102KBV	1000P / K / 50V
C1085-1086	ECUX1E104ZFV	0.1 / Z / 25V
C1087/1088	ECUX1H102KBV	1000P / K / 50V
C1089/1090	ECUX1E104ZFV	0.1 / Z / 25V
C1091/1092	ECUX1H102KBV	1000P / K / 50V
C1093/1094	ECUX1E104ZFV	0.1 / Z / 25V
C1095/1096	ECUX1H102KBV	1000P / K / 50V
C1097/1098	ECUX1E104ZFV	0.1 / Z / 25V
C1099	ECUX1H102KBV	1000P / K / 50V
C1100/1101	ECUX1E104ZFV	0.1 / Z / 25V
C1102	ECUX1H102KBV	1000P / K / 50V
C1103	ECUX1E104ZFV	0.1 / Z / 25V
C1104	ECUX1H103KBV	0.01 / K / 50V
C1105/1106	ECUX1H102KBV	1000P / K / 50V
C1107	ECUX1E104ZFV	0.1 / Z / 25V
C1108	ECUX1H331JCV	330P / J / 50V
C1109	ECUX1H101JCV	100P / J / 50V

C1110/1111	ECUX1H220JCV	22P / J / 50V
C1112/1113	ECUX1E104ZFV	0.1 / Z / 25V
C1114	ECUX1H220JCV	22P / J / 50V
C1115/1116	ECUX1H102KBV	1000P / K / 50V
C1117/1118	ECUX1E104ZFV	0.1 / Z / 25V
C1119/1120	ECUX1H102KBV	1000P / K / 50V
C1121/1122	ECUX1E104ZFV	0.1 / Z / 25V
C1123/1124	ECUX1H102KBV	1000P / K / 50V
C1125/1126	ECUX1E104ZFV	0.1 / Z / 25V
C1127	ECUX1H102KBV	1000P / K / 50V
C1128	ECUX1E104ZFV	0.1 / Z / 25V
C1129	ECUX1H101JCV	100P / J / 50V
C1131	ECUX1E104ZFV	0.1 / Z / 25V
C1132-1134	ECUX1H101JCV	100P / J / 50V
C1136	ECUX1E104ZFV	0.1 / Z / 25V
C1137-1139	ECUX1H101JCV	100P / J / 50V
C1142	ECUX1H101JCV	100P / J / 50V
C1143/1144	ECUX1E104ZFV	0.1 / Z / 25V
C1145/1146	ECUX1H101JCV	100P / J / 50V
C1149/1150	ECUX1E104ZFV	0.1 / Z / 25V
C1151/1152	ECUX1H101JCV	100P / J / 50V
C1153-1155	ECUX1E104ZFV	0.1 / Z / 25V
C1156-1160	ECUX1H102KBV	1000P / K / 50V
C1161/1162	ECUX1E104ZFV	0.1 / Z / 25V
C1163	ECUX1H102KBV	1000P / K / 50V
C1164-1168	ECUX1E104ZFV	0.1 / Z / 25V
C1169/1170	ECJ1VF1C474	0.47 / 16V
C1171/1173	ECUX1E104ZFV	0.1 / Z / 25V
C1175	ECUX1H102KBV	1000P / K / 50V
C1176	ECUX1E104ZFV	0.1 / Z / 25V
C1177	ECEV1AA101SP	100 / 10V
C1178/1179	ECUX1E104ZFV	0.1 / Z / 25V
C1180	ECUX1H220JCV	22P / J / 50V
C1181/1182	ECUX1H103KBV	0.01 / K / 50V
C1183	ECUX1H220JCV	22P / J / 50V
C1184	ECUX1E104ZFV	0.1 / Z / 25V
C1185	ECUX1H102KBV	1000P / K / 50V
C1186	ECUX1H103KBV	0.01 / K / 50V
C1187-1191	ECUX1E104ZFV	0.1 / Z / 25V

C1192	ECUX1H102KBV	1000P / K / 50V
C1193	ECUX1E104ZFV	0.1 / Z / 25V
C1194	ECUX1H102KBV	1000P / K / 50V
C1195	ECUX1E104ZFV	0.1 / Z / 25V
C1197	ECUX1H101JCV	100P / J / 50V
C1198	ECUX1H103KBV	0.01 / K / 50V
C1199	EEVFC1V470P	47 / 35V
C1200	ECUX1H101JCV	100P / J / 50V
C1201	ECUX1H103KBV	0.01 / K / 50V
C1202	ECUX1H102KBV	1000P / K / 50V
C1203	EEVFC1V470P	47 / 35V
C1204	30SC3R3M	Capacitor
C1208	ECUX1H220JCV	22P / J / 50V
C1211-1215	ECUX1H220JCV	22P / J / 50V
C1216	ECUX1H473ZFV	0.047 / J / 50V
C1217/1218	ECUX1H102KBV	1000P / K / 50V
C1219	ECUX1E104ZFV	0.1 / Z / 25V
C1220	ECUX1H103KBV	0.01 / K / 50V
C1223	ECUX1H220JCV	22P / J / 50V
C1224	4SVP100M	Capacitor
C1225	ECUX1H220JCV	22P / J / 50V
C1226	4SVP100M	Capacitor
C1227/1228	ECUX1H220JCV	22P / J / 50V
C1229	EEVFC0J221P	220 / 6.3V
C1230	ECUX1H220JCV	22P / J / 50V
C1231/1232	EEVFC0J221P	220 / 6.3V
C1233	ECUX1H220JCV	22P / J / 50V
C1234-1238	EEVFC0J221P	220 / 6.3V
C1239-1242	ECEV1AA101SP	100 / 10V
C1248-1250	ECUX1H102KBV	1000P / K / 50V
C1253/1255	ECUX1E104ZFV	0.1 / Z / 25V
C1256	ECUX1H101JCV	100P / J / 50V
C1257	ECUX1H103KBV	0.01 / K / 50V
C1258-1260	ECUX1H101JCV	100P / J / 50V
C1261-1265	ECUX1E104ZFV	0.1 / Z / 25V
C1273-1278	ECUX1E104ZFV	0.1 / Z / 25V
C1279	ECUX1H103KBV	0.01 / K / 50V
Z1051-1054	EZAST11AAAJ	Capacitor Array
Z1085/1086	EZAST11AAAJ	Capacitor Array

Z1089-1104	EZAST13AAAJ	Capacitor Array
COILS		
L1000	BLM11A601SPT	Chip Coil
L1001/1002	LQH4N220K04	Coil
L1003-1018	BLM11A601SPT	Chip Coil
L1019	LQH4N220K04	Coil
L1020	BLM11A601SPT	Chip Coil
L1021	SLF12565T220	Coil
L1024-1028	BLM11A601SPT	Chip Coil
DIODES		
D1000	MA132A	Diode
D1001-1006	BR1102W	LED
D1008	MA132A	Diode
D1009	D1FS4A-4063	Diode
D1011	MA132A	Diode
D1012/1013	PJVDJADAN202	Diode
D1101-1106	BR1102W	LED
TRANSISTORS		
Q1000	UN2212	Transistor
Q1001-1004	2SA1037K	Transistor
Q1005	UN2212	Transistor
Q1006/1007	2SA1037K	Transistor
Q1008-1011	2SC2412K	Transistor
Q1014	2SC2412K	Transistor
Q1015-1017	UN2212	Transistor
Q1019-1021	UN2212	Transistor
ICs		
IC1000	HD74HCT245FP	IC
IC1001	SN74HC4066NS	IC
IC1002-1005	AK5482	IC
IC1006	SLA566THF0T	IC (Gate Array)
IC1007	SG8002JA2697	IC
IC1008-1013	CY7C199-15VC	IC (SRAM 256K)
IC1014	S-93C66ADFJ	IC (EEPROM 4K)
IC1015	SN74HC245NS2	IC

IC1016	TC74AC273F	IC
IC1017	TC74AC138F	IC
IC1018	SN74HC08NS20	IC
IC1019	PST3642UR	IC
IC1020/1021	TC74AC138F	IC
IC1022	HD6432655A00	IC
IC1023	TC7W00FU	IC
IC1024	SN74LV32ANS2	IC
IC1027	PBVRX01S2065	IC (8M Flash Memory)
IC1028	PBVRX02S2065	IC (8M Flash Memory)
IC1029/1030	CY7C199-15VC	IC (SRAM 256K)
IC1033	MD1421N-4072	IC (DC-DC Convertor)
IC1034	HD74HCT245FP	IC
IC1036	PST3628UR	IC
IC1037	HD74LV1GT08A	IC
OTHERS		
CN1000	175487-9	Connector
CN1001	1-175487-1	Connector
CN1002	175487-8	Connector
CN1003	PB175487-10	Connector
CN1004	LPC-30M2	Connector
CN1005	LPC-6M2	Connector
CN1006	176381-6	Connector
X1000	1AS200006AZ	Oscillator
	PJMYX0001Z	Heat Sink
	LPC-SP	Jumper
	PJHXB0005Z	Sheet
	XYN3+J6FX	Screw

16.2 SCSI Board

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R601/603	ERJ3GEY0R00	0-ohm Jumper
R604	ERJ3GEYJ560	56 / J / 0.1W
R606	ERJ3GEY0R00	0-ohm Jumper
R607	ERJ3GEYJ472	4.7k / J / 0.1W
R608/609	ERJ3GEY0R00	0-ohm Jumper
R611	ERJ3GEY0R00	0-ohm Jumper
R616	ERJ3GEYJ220	22 / J / 0.1W
R617	ERJ3GEYJ472	4.7k / J / 0.1W
R618	ERJ3GEYJ223	22k / J / 0.1W
R619	SMD125-2	Poly Switch
R622	ERJ3GEYJ103	10k / J / 0.1W
R623/624	ERJ3GEY0R00	0-ohm Jumper
R626	ERJ3GEY0R00	0-ohm Jumper
R628	ERJ3GEY0R00	0-ohm Jumper
R630-632	ERJ3GEY0R00	0-ohm Jumper
R634/636	ERJ3GEY0R00	0-ohm Jumper
R638-642	ERJ3GEY0R00	0-ohm Jumper
R644/645	ERJ3GEYJ101	100 / J / 0.1W
R646-649	ERJ3GEY0R00	0-ohm Jumper
R653-657	ERJ3GEY0R00	0-ohm Jumper
R658	ERJ3GEYJ100	10 / J / 0.1W
R660/662	ERJ3GEY0R00	0-ohm Jumper
R663-668	ERJ3GEYJ100	10 / J / 0.1W
R669	ERJ3GEY0R00	0-ohm Jumper
R670	ERJ3GEYJ472	4.7k / J / 0.1W
R671	ERJ3GEYJ332	3.3k / J / 0.1W
R672	ERJ3GEYJ101	100 / J / 0.1W
R673-675	ERJ3GEY0R00	0-ohm Jumper
R676-679	ERJ3GEYJ100	10 / J / 0.1W
R681-684	ERJ3GEYJ100	10 / J / 0.1W
R686	ERJ3GEYJ100	10 / J / 0.1W

R687	ERJ3GEYJ103	10k / J / 0.1W
R688-693	ERJ3GEYJ103	10k / J / 0.1W
R694/696/699	ERJ3GEY0R00	0-ohm Jumper
R700/701	ERJ3GEYJ472	4.7k / J / 0.1W
R703	ERJ3GEYJ102	1k / J / 0.1W
R706	ERJ3GEY0R00	0-ohm Jumper
R712	ERJ3GEYJ100	10 / J / 0.1W
R713	ERJ3GEY0R00	0-ohm Jumper
R715/716	ERJ3GEYJ223	22k / J / 0.1W
R717	ERJ3GEY0R00	0-ohm Jumper
R719	ERJ3GEYJ470	47 / J / 0.1W
R730	ERJ3GEY0R00	0-ohm Jumper
R734	ERJ3GEYJ103	10k / J / 0.1W
R736	ERJ3GEYJ220	22 / J / 0.1W
R742	ERJ3GEYJ103	10k / J / 0.1W
R766	ERJ3GEY0R00	0-ohm Jumper
R767	ERJ3GEYJ472	4.7k / J / 0.1W
R771/776	ERJ3GEY0R00	0-ohm Jumper
Z601-604	MNR14E0AJ103	Resistor Array
Z606-613	MNR14E0AJ100	Resistor Array
Z615-641	MNR14E0AJ100	Resistor Array
Z642-645	MNR14E0AJ103	Resistor Array
Z646-651	MNR14E0AJ220	Resistor Array
Z653/654	MNR14E0AJ220	Resistor Array
Z656	MNR14E0AJ103	Resistor Array
Z657-660	MNR14E0AJ220	Resistor Array
Z661-668	MNR14E0AJ103	Resistor Array
CAPACITORS		
C604	ECUX1E104ZFV	0.1 / Z / 25V
C605	ECUX1H102KBV	1000P / K / 50V
C606	ECUX1E104ZFV	0.1 / Z / 25V
C608	ECUX1H102KBV	1000P / K / 50V
C612/613	ECUX1E104ZFV	0.1 / Z / 25V
C614	ECUX1H102KBV	1000P / K / 50V
C615	ECUX1E104ZFV	0.1 / Z / 25V
C616	ECEV1CA100SR	10 / 16V
C617	ECEV1AA101SP	100 / 10V
C618-620	ECUX1H101JCV	100P / J / 50V

C621/622	ECEV1AA101SP	100 / 10V
C623/624	ECUX1E104ZFV	0.1 / Z / 25V
C625/626	ECUX1H101JCV	100P / J / 50V
C627/628	ECEV1AA101SP	100 / 10V
C629/630	ECUX1E104ZFV	0.1 / Z / 25V
C631	ECUX1H101JCV	100P / J / 50V
C633	ECUX1H102KBV	1000P / K / 50V
C634-636	ECUX1E104ZFV	0.1 / Z / 25V
C640-647	ECUX1E104ZFV	0.1 / Z / 25V
C648	ECUX1H101JCV	100P / J / 50V
C649	ECUX1E104ZFV	0.1 / Z / 25V
C650/651	ECUX1H101JCV	100P / J / 50V
C652-654	ECUX1E104ZFV	0.1 / Z / 25V
C655	ECUX1H101JCV	100P / J / 50V
C656	ECUX1E104ZFV	0.1 / Z / 25V
C657/658	ECUX1H101JCV	100P / J / 50V
C659/660	ECUX1E104ZFV	0.1 / Z / 25V
C661/662	ECUX1H101JCV	100P / J / 50V
C663/664	ECUX1E104ZFV	0.1 / Z / 25V
C665/666	ECUX1H101JCV	100P / J / 50V
C667/668	ECUX1E104ZFV	0.1 / Z / 25V
C669	ECUX1H101JCV	100P / J / 50V
C670/671	ECUX1E104ZFV	0.1 / Z / 25V
C672	ECUX1H101JCV	100P / J / 50V
C673/674	ECEV1AA101SP	100 / 10V
C675	ECUX1H101JCV	100P / J / 50V
C676	ECUX1E104ZFV	0.1 / Z / 25V
C678	ECUX1H101JCV	100P / J / 50V
C679	ECUX1E104ZFV	0.1 / Z / 25V
C680	ECUX1H101JCV	100P / J / 50V
C681	ECUX1E104ZFV	0.1 / Z / 25V
C682	ECUX1H101JCV	100P / J / 50V
C683	ECUX1E104ZFV	0.1 / Z / 25V
C684	ECUX1H101JCV	100P / J / 50V
C685	ECUX1E104ZFV	0.1 / Z / 25V
C686	ECUX1H101JCV	100P / J / 50V
C687	ECUX1E104ZFV	0.1 / Z / 25V
C688	ECUX1H101JCV	100P / J / 50V
C689	ECUX1E104ZFV	0.1 / Z / 25V

C690	ECUX1H101JCV	100P / J / 50V
C691-701	ECUX1E104ZFV	0.1 / Z / 25V
C702	ECUX1H101JCV	100P / J / 50V
C703	ECUX1E104ZFV	0.1 / Z / 25V
C707-710	ECUX1H101JCV	100P / J / 50V
C711-714	ECUX1E104ZFV	0.1 / Z / 25V
C715	ECEV1AA101SP	100 / 10V
C716	ECUX1H101JCV	100P / J / 50V
C717	ECUX1E104ZFV	0.1 / Z / 25V
C718	ECUX1H101JCV	100P / J / 50V
C719	ECUX1H102KBV	1000P / K / 50V
C720	ECUX1E104ZFV	0.1 / Z / 25V
C721	ECUX1H120JCV	12P / J / 50V
C722	ECUX1E104ZFV	0.1 / Z / 25V
C723	ECUX1H101JCV	100P / J / 50V
C724	ECUX1E104ZFV	0.1 / Z / 25V
C725	ECUX1H101JCV	100P / J / 50V
C726	ECUX1E104ZFV	0.1 / Z / 25V
C727	ECUX1H101JCV	100P / J / 50V
C728	ECUX1E104ZFV	0.1 / Z / 25V
C729	ECUX1H101JCV	100P / J / 50V
C730	ECUX1E104ZFV	0.1 / Z / 25V
C731	ECEV1AA101SP	100 / 10V
C735	ECUX1H103KBV	0.01 / K / 50V
C736/738	ECUX1H101JCV	100P / J / 50V
C739	ECUX1H103KBV	0.01 / K / 50V
C740-742	ECUX1E104ZFV	0.1 / Z / 25V
C743	ECUX1H103KBV	0.01 / K / 50V
C744-746	ECUX1H101JCV	100P / J / 50V
C747	ECUX1H103KBV	0.01 / K / 50V
C748-750	ECUX1E104ZFV	0.1 / Z / 25V
C751-753	ECUX1H101JCV	100P / J / 50V
C754-756	ECUX1E104ZFV	0.1 / Z / 25V
C757-759	ECUX1H101JCV	100P / J / 50V
C760-762	ECUX1E104ZFV	0.1 / Z / 25V
C763	ECUX1H102KBV	1000P / K / 50V
C764	ECUX1H331JCV	330P / J / 50V
C765	ECUX1H102JCV	1000P / J / 50V
C766	ECEV1CA100SR	10 / 16V

C767/768	ECUX1H101JCV	100P / J / 50V
C769	ECUX1E104ZFV	0.1 / Z / 25V
C770	ECEV1EA4R7SR	4.7 / 25V
C771	ECEV1AA101SP	100 / 10V
C772-774	ECUX1H101JCV	100P / J / 50V
C775-777	ECUX1E104ZFV	0.1 / Z / 25V
C778/779	ECUX1H101JCV	100P / J / 50V
C780/781	ECUX1E104ZFV	0.1 / Z / 25V
C782/783	ECUX1H101JCV	100P / J / 50V
C784/785	ECUX1E104ZFV	0.1 / Z / 25V
C786/787	ECUX1H101JCV	100P / J / 50V
C788/789	ECUX1E104ZFV	0.1 / Z / 25V
C790	ECEV1AA101SP	100 / 10V
C791	ECUX1H101JCV	100P / J / 50V
C793	ECUX1E104ZFV	0.1 / Z / 25V
C794	ECUX1H101JCV	100P / J / 50V
C795	ECUX1E104ZFV	0.1 / Z / 25V
C796	ECUX1H101JCV	100P / J / 50V
C799	ECUX1E104ZFV	0.1 / Z / 25V
C802	ECEV1AA101SP	100 / 10V
C809	ECUX1H101JCV	100P / J / 50V
C810	ECEV1AA101SP	100 / 10V
C812	ECUX1E104ZFV	0.1 / Z / 25V
C815	ECUX1H101JCV	100P / J / 50V
C816	ECEV1AA101SP	100 / 10V
C817/818	ECUX1E104ZFV	0.1 / Z / 25V
C819	EEVFC0J221P	E / 220 / 6.3V
C820	ECUX1H102KBV	1000P / K / 50V
C821-823	EEVFC0J221P	E / 220 / 6.3V
C824	ECEV1AA101SP	100 / 10V
C825	ECUX1E104ZFV	0.1 / Z / 25V
C826-828	ECEV1AA101SP	100 / 10V
C829-841	ECUX1E104ZFV	0.1 / Z / 25V
C842	ECUX1H101JCV	100P / J / 50V
C843	ECUX1E104ZFV	0.1 / Z / 25V
C844/845	ECUX1H101JCV	100P / J / 50V
C846/847	ECUX1E104ZFV	0.1 / Z / 25V
C848	ECEV1AA101SP	100 / 10V
C849	ECUX1E104ZFV	0.1 / Z / 25V

C850	ECUX1H102KBV	1000P / K / 50V
C900	ECUX1E104ZFV	0.1 / Z / 25V
C905	ECUX1H220JCV	22P / J / 50V
C906-912	ECUX1E104ZFV	0.1 / Z / 25V
DIODES		
D600	RB050L40TE25	Diode
COILS		
L600/601	BLM11A601SPT	ChiP Core
L605-612	BLM11A601SPT	ChiP Core
L615-617	BLM11A601SPT	ChiP Core
L620-627	BLM11A601SPT	ChiP Core
L632	LQH4N220K04	Coil
TRANSISTORS		
Q600-603	UN2212	Transistor
ICs		
IC600	SG615PTJ-40M	Oscillator
IC602	FAS236U	IC
IC603	BH9598AFP	IC
IC604/605	MB64164D102F	IC(64MSDRAM)
IC606	CY7C199-15VC	IC(256K SRAM)
IC607	SG8002JF2697	IC
IC608	SG8002JF9000	IC
IC609	PI6C2509-133	IC
IC610	SN74HC245NS2	IC
IC611	SN74LV00ANS2	IC
IC612	SN74LV04ANS2	IC
IC613	SN74LV32ANS2	IC
IC614	SLA581THF0M	IC(Gate Array)
IC615/616	TC7S04FU	IC
IC617	SM560BZD	IC
IC619/620	HD74HCT245FP	IC
IC621	SN74LV573ANS	IC
IC622	HD74LV245AFP	IC
IC623	SN74LV02ANS2	IC

OTHERS		
CN600/601	FCN235D050GJ	Connector
CN602	176381-3	Connector
CN605	390195-6	Connector
SW600	SMS704	Switch

TOP PREVIOUS NEXT

16.3 MOTHER Board

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R2001-2020	ERJ3GEYJ472	4.7k / J / 0.1W
R2021-2028	ERJ3GEYJ104	100k / J / 0.1W
R2029-2036	ERJ3GEYJ103	10k / J / 0.1W
R2111-2113	ERJ12YJ331	330 / J / 0.25W
R2992	ERJ3GEYJ222	2.2k / J / 0.1W
R2993	ERJ12YJ222	2.2k / J / 0.25W
R2994	ERJ3GEYJ223	22k / J / 0.1W
CAPACITORS		
C2001-2003	ECEV1EA101UP	100 / 25V
C2005	ECEV1EA101UP	100 / 25V
C2006	ECUX1H103KBV	0.01 / K / 50V
C2007	ECEV1EA101UP	100 / 25V
C2010	ECUX1E104ZFV	0.1 / Z / 25V
C2011-2013	ECEV1EA101UP	100 / 25V
C2014	ECUX1E104ZFV	0.1 / Z / 25V
C2015/2016	ECEV1EA101UP	100 / 25V
C2017/2018	ECUX1E104ZFV	0.1 / Z / 25V
C2019	ECEV1EA101UP	100 / 25V
C2020-2023	ECUX1E104ZFV	0.1 / Z / 25V
C2024/2025	ECEV1EA101UP	100 / 25V
C2027	ECUX1H103KBV	0.01 / K / 50V
C2028	ECUX1E104ZFV	0.1 / Z / 25V
C2031-2033	ECUX1E104ZFV	0.1 / Z / 25V
C2051/2061	ECEV1EA101UP	100 / 25V
C2062/2063	ECUX1E104ZFV	0.1 / Z / 25V
C2064-2066	ECEV1EA101UP	100 / 25V
C2992	ECUX1H103KBV	0.01 / K / 50V
C2993-2995	ECUX1H220JCV	22P / J / 50V
C2996/2997	ECUX1H101JCV	100P / J / 50V
Z2995-2999	EZAST11AAAJ	Capacitor Array

DIOEDS		
D2997	MA3091-M	Diode
D2998/2999	MA132A	Diode
TRANSISTORS		
Q2997/2998	UN2212	Transistor
Q2999	2SJ462-T2	Transistor
ICs		
IC2001-2003	SN74HC245NS2	IC
IC2999	NJM78M12FA	IC
OTHERs		
CN2001	917628-6	Connector
CN2002	917628-3	Connector
CN2003	XG4C-4034	Connector
CN2004	DF1122DP2DSA	Connector
CN2005	DF1118DP2DSA	Connector
CN2006	DF1124DP2DSA	Connector
CN2007	DF1114DP2DSA	Connector
CN2008	DF1112DP2DSA	Connector
CN2009	S12B-XASK-1	Connector
CN2011	B5B-PH-K-R	Connector
Z2001/2002	RXE065	Poly Switch (650mA)
Z2003	RXE017	Poly Switch (170mA)

TOP PREVIOUS NEXT

16.4 DRIVE Board

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R331	ERDS2TJ392	3.9k / J / 0.25W
R332	ERDS2TJ222	2.2k / J / 0.25W
R333	ERDS2TJ392	3.9k / J / 0.25W
R334	ERDS2TJ222	2.2k / J / 0.25W
R335/336	ERDS2TJ472	4.7k / J / 0.25W
R341	ERDS2TJ682	6.8k / J / 0.25W
R342	ERDS2TJ681	680 / J / 0.25W
R343	ERDS2TJ472	4.7k / J / 0.25W
R344/345	MPC710.22K	Resistor
R351	ERDS2TJ912	9.1k / J / 0.25W
R352	ERDS2TJ112	1.1k / J / 0.25W
R353	ERDS2TJ472	4.7k / J / 0.25W
R354/355	MPC710.47K	Resistor
R371-374	ERDS2TJ102	1k / J / 0.25W
R375-378	ERDS2TJ103	10k / J / 0.25W
R379	ERDS2TJ561	560 / J / 0.25W
R381	ER0S2TKF2942	29.4k / F / 0.25W
R382	ER0S2TKF1001	1k / F / 0.25W
R383	ERX12SJR22V	0.22 / J / 0.5W
R384	ERDS2TJ562	5.6k / J / 0.25W
R385	ERDS2TJ272	2.7k / J / 0.25W
R386	ERDS2TJ152	1.5k / J / 0.25W
R387/391	ERDS2TJ102	1k / J / 0.25W
R392	ERDS2TJ222	2.2k / J / 0.25W
R394-396	ERDS2TJ472	4.7k / J / 0.25W
R471-473	ERDS2TJ561	560 / J / 0.25W
R474-477	ERG2SJ102P	1k / J / 2W
R478-481	ERDS2TJ181	180 / J / 0.25W
R482-484	ERDS2TJ472	4.7k / J / 0.25W
Z391	EXBZ9E103J	Resistor Array

CAPACITORS		
C331	35YXF220MT8	220 / 35V
C332	ECFF1H104ZF5	0.1 / Z / 50V
C341	50YXF33M	33 / 50V
C342	ECFF1H104ZF5	0.1 / Z / 50V
C343	ECKF1H472KB5	4700P / K / 50V
C344	35YXF220MT8	220 / 35V
C351	50YXF33M	33 / 50V
C352	ECFF1H104ZF5	0.1 / Z / 50V
C353	ECKF1H472KB5	4700P / K / 50V
C354	35YXF220MT8	220 / 35V
C371	ECFF1H104ZF5	0.1 / Z / 50V
C372	35YXF220MT8	220 / 35V
C373-376	ECFF1H104ZF5	0.1 / Z / 50V
C381	ECKD3A331KBP	330P / K / 1kV
C382	35YXF220MT8	220 / 35V
C383	50YXF220M	220 / 50V
C391-394	ECFF1H104ZF5	0.1 / Z / 50V
C480-483	ECQV1H474JL3	0.47 / J / 50V
COILS		
L381	TSL1112S-471	Coil
DIODES		
D331/332	HZS18-1	Diode
D381	ERA91-02	Diode
TRNASISTORS		
Q331/332	2SC3311A	Transistor
Q342/352	DTB113ZS	Transistor
Q371-374	2SC3311A	Transistor
Q375-378	2SB1417-P	Transistor
Q381	2SD2137-P	Transistor
Q391	UN4213	Transistor
Q392-394	UN4221	Transistor
ICs		
IC341/351	SLA7044MLF87	IC

IC371	M62353P	IC
IC381	NJM2360AD	IC
IC391-393	TC74HC273P	IC
OTHERS		
CN331	HU5400PNAS53	Connector
CN332	S4P-VH	Connector
CN341	S06B-XASK-1	Connector
CN351	S07B-XASK-1	Connector
CN371	S04B-XASK-1	Connector
CN372	S05B-XASK-1	Connector
Z341/351	ICP-N70T104	IC Protector
Z371/381	ICP-N70T104	IC Protector
Z382	RXE020-AP	Poly Switch (200mA)
	PBMYA0015Z	Heat Sink
	XNG3BFX	Nut
	XYN3+J10FX	Screw

TOP PREVIOUS NEXT

16.5 PANEL Board

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R581	ERDS2TJ182	1.8k / J / 0.25W
R582	ERDS2TJ151	150 / J / 0.25W
R583	ERDS2TJ181	180 / J / 0.25W
R584	ERDS2TJ391	390 / J / 0.25W
R585	ERDS2TJ182	1.8k / J / 0.25W
R586	ERDS2TJ332	3.3k / J / 0.25W
R587	ERDS2TJ103	10k / J / 0.25W
R588	ERDS2TJ332	3.3k / J / 0.25W
Z551-Z555	EXBZ5E103J	Resistor Array
Z559	EXBZ5E103J	Resistor Array
CAPACITORS		
C551/552	RPE132F104	Capacitor
C553	ECEA1AKS101	100 / 10V
C554	RPE132F104	Capacitor
C555	ECEA1EKS100	10 / 25V
DIODES		
D551	GL9ED2	LED
TRANSISTORS		
Q551	2SC3311A	Transistor
ICs		
IC551	RCM7065X-B	LCD (Liquid Crystal Display)
IC552/553	SN74HC365N	IC
OTHERS		
BZ551	PKM22EPP4002	Buzzer
CN551	DF11-22DP2DS	Connector
SW501-510	B3F-6122	Switch

	FFC14TAMEP1	Connector
	C-2010	Spacer
	XNG2EFX	Nut
	XYN2+J16FX	Screw

TOP PREVIOUS NEXT

16.6 RELAY (LOWER) Board

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R501-504	ERDS2TJ181	180 / J / 0.25W
R505	ERDS2TJ392	3.9k / J / 0.25W
R506	ERDS2TJ104	100k / J / 0.25W
R507	ERDS2TJ124	120k / J / 0.25W
R508	ERDS2TJ393	39k / J / 0.25W
R509	ERDS2TJ823	82k / J / 0.25W
R510	ERDS2TJ822	8.2k / J / 0.25W
R511	ERDS2TJ153	15k / J / 0.25W
R512	ERDS2TJ104	100k / J / 0.25W
R513	ERDS2TJ153	15k / J / 0.25W
R514	ERDS2TJ102	1k / J / 0.25W
R515	ERDS2TJ103	10k / J / 0.25W
R516	ERDS2TJ102	1k / J / 0.25W
R517	ERDS2TJ223	22k / J / 0.25W
R518	ERDS2TJ222	2.2k / J / 0.25W
R564/565	ERDS2TJ181	180 / J / 0.25W
CAPACITORS		
C501	ECEA1CKS100	10 / 16V
C502	RPE132F104	Capacitor
C503	ECEA1CKS100	10 / 16V
C504-506	RPE132F104	Capacitor
C507	ECQB1H103JF3	0.01 / J / 50V
C508	RPE132F104	Capacitor
C509	RPE132F104	Capacitor
C510	ECQB1H222JF	2200P / J / 50V
C511-514	ECQB1H103JF3	0.01 / J / 50V
C558	ECQV1H474JL3	0.47 / J / 50V
C567	RPE132F104	Capacitor
DIODES		

D501/509	MA165	Diode
D510	PB103AT	Thermistor
TRANSISTORS		
Q501-505	2SC3311A	Transistor
Q506	2SA1309A	Transistor
Q540/541	2SC3311A	Transistor
ICs		
IC501	M62353P	IC
IC502	NJM2082D	IC
OTHERS		
CN501	DF11-24DP2DS	Connector
CN502	S7B-PH	Connector
CN503	S8B-PH-K-S	Connector
CN504	DF11-12DP2DS	Connector
CN505	S6B-PH-K-R	Connector

TOP PREVIOUS NEXT

16.7 RELAY (UPPER) Board

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R519	ERDS2TJ102	1k / J / 0.25W
R520	ERDS2TJ391	390 / J / 0.25W
R521	ERDS2TJ181	180 / J / 0.25W
R522	ERDS2TJ103	10k / J / 0.25W
R523/524	ERDS2TJ102	1k / J / 0.25W
R525	ERDS2TJ472	4.7k / J / 0.25W
R526/527	ERDS2TJ102	1k / J / 0.25W
R528	ERDS2TJ472	4.7k / J / 0.25W
R529/530	ERDS2TJ103	10k / J / 0.25W
R531	ERDS2TJ822	8.2k / J / 0.25W
R532	ERDS2TJ222	2.2k / J / 0.25W
R533	ERDS2TJ102	1k / J / 0.25W
R534	ERDS2TJ103	10k / J / 0.25W
R535	ERDS2TJ331	330 / J / 0.25W
R536	ERDS2TJ103	10k / J / 0.25W
CAPACITORS		
C515	ECEA1VKS100	Capacitor
C516/518	RPE132F104	Capacitor
C546	ECEA1CKS100	10 / 16V
C547	RPE132F104	Capacitor
TRANSISTORS		
Q507-510	2SC3311A	Transistor
Q511	2SA1309A	Transistor
Q513/514	2SC3311A	Transistor
Q515	UN4213	Transistor
ICs		
IC503	NJM2903D	IC (Linear)
IC504	TLP832	Photo Interrupter

OTHERS		
CN506	DF1118DP2DSA	Connector
CN507	PBILS6PS2T2	Connector
CN508	ILS5PS2T2EF	Connector
CN509	PBILS8PS2T2	Connector
CN510	ILS4PS2T2EF	Connector

TOP PREVIOUS NEXT

16.8 HOPPER POSITION Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R537	ERDS2TJ103	10k / J / 0.25W
R538	ERDS2TJ331	330 / J / 0.25W
R539	ERDS2TJ103	10k / J / 0.25W
R540	ERDS2TJ331	330 / J / 0.25W
CAPACITORS		
C519/520	RPE132F104	Capacitor
TRANSISTORS		
Q516/517	2SC3311A	Transistor
ICs		
IC505/506	TLP832	Photo Interrupter
OTHERS		
CN511	DF11-12DP2DS	Connector
CN512	52080-0810	Connector

TOP PREVIOUS NEXT

16.9 SIZE DETECTOR Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R541	ERDS2TJ331	330 / J / 0.25W
R542	ERDS2TJ103	10k / J / 0.25W
R543	ERDS2TJ331	330 / J / 0.25W
R544	ERDS2TJ103	10k / J / 0.25W
R545	ERDS2TJ331	330 / J / 0.25W
R546	ERDS2TJ103	10k / J / 0.25W
R547	ERDS2TJ331	330 / J / 0.25W
R548	ERDS2TJ103	10k / J / 0.25W
R549	ERDS2TJ331	330 / J / 0.25W
R550	ERDS2TJ103	10k / J / 0.25W
CAPACITORS		
C521/522	RPE132F104	Capacitor
TRANSISTORS		
Q519-523	2SC3311A	Transistor
ICs		
IC507-511	TLP832	Photo Interrupter
OTHERS		
CN513	52080-0810	Connector
CN531	PBS4B-PH	Connector

TOP PREVIOUS NEXT

16.10 WAITING [LED] Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
DIODES		
D505-507	TLN119	LED
OTHERS		
CN522	S8B-PH-K-S	Connector
X501	MA40S4R	Supersonic Wave Sensor
	PBHRA0055Z	Spacer
	PBHRA0201Z	Spacer

TOP PREVIOUS NEXT

16.11 POINTER Board

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R553	ERDS2TJ331	330 / J / 0.25W
R554	ERDS2TJ103	10k / J / 0.25W
CAPACITORS		
C523	RPE132F104	Capacitor
TRANSISTORS		
Q524	2SC3311A	Transistor
ICs		
IC513	TLP832	Photo Interrupter
OTHERS		
CN514	PBB7B-PH	Connector
CN515	PBB6B-PH	Connector

16.12 ENDING (REAR) SENSOR Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R555	ERDS2TJ103	10k / J / 0.25W
CAPACITORS		
C524	ECBT1H102KB5	1000P / 50V
C525	RPE132F104	Capacitor
C526	ECBT1H102KB5	1000P / 50V
C560	RPE122E105	Capacitor
TRANSISTORS		
Q525	2SC3311A	Transistor
Q526	PN168	Photo Transistor
OTHERS		
CN516	PBB6B-PH	Connector
CN517	PBB5B-PH	Connector
	PBHRA0055Z	Spacer

TOP PREVIOUS NEXT

16.13 PAPER JAM (LED) Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
DIODES		
D502	TLN119	LED
OTHERS		
CN518	PBB5B-PH	Connector
	PBHRA0055Z	Spacer

TOP PREVIOUS NEXT

16.14 START POSITION [LED] Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
DIODES		
D503	TLN119	LED
OTHERS		
CN519	S5B-PH-K-R	Connector
CN520	PBS4B-PH	Connector
	PBHRA0055Z	Spacer

TOP PREVIOUS NEXT

16.15 ENDING (REAR) LED Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
DIODES		
D504	TLN119	LED
OTHERS		
CN521	PBS4B-PH	Connector
	PBHRA0055Z	Spacer

TOP PREVIOUS NEXT

16.16 STARTING POSITION SENSOR Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R556	ERDS2TJ103	10k / J / 0.25W
CAPACITORS		
C527	RPE132F104	Capacitor
C528/529	ECBT1H102KB5	1000P / 50V
C561	RPE122E105	Capacitor
TRANSISTORS		
Q527	2SC3311A	Transistor
Q528	PN168	Photo Transistor
OTHERS		
CN523	ILS8PS2L2EF	Connector
CN524	PBILS7PS2L2	Connector
	PBHRA0055Z	Spacer

TOP PREVIOUS NEXT

16.17 WAITING SENSOR Board

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R557-559	ERDS2TJ103	10k / J / 0.25W
CAPACITORS		
C530	RPE132F104	Capacitor
C531-532	ECBT1H102KB5	1000P / 50V
C533	RPE132F104	Capacitor
C534-537	ECBT1H102KB5	1000P / 50V
C545	RPE132F104	Capacitor
C562-564	RPE122E105	Capacitor
TRANSISTORS		
Q529	2SC3311A	Transistor
Q530	PN168	Photo Transistor
Q531	2SC3311A	Transistor
Q532	PN168	Photo Transistor
Q533	2SC3311A	Transistor
Q534	PN168	Photo Transistor
OTHERS		
CN525	PBILS7PS2L2	Connector
X502	MA40S4S	Supersonic Sensor
	PBHRA0055Z	Spacer
	PBHRA0201Z	Spacer

16.18 ENDING (FRONT) SENSOR Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R561	ERDS2TJ103	10k / J / 0.25W
CAPACITORS		
C541	RPE132F104	Capacitor
C542/543	ECBT1H102KB5	1000P / 50V
C566	RPE122E105	Capacitor
TRANSISTORS		
Q537	2SC3311A	Transistor
Q538	PN168	Photo Transistor
OTHERS		
CN529	ILS4PS2L2EF	Connector
	PBHRA0055Z	Spacer

TOP PREVIOUS NEXT

16.19 PAPER JAM SENSOR Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R560	ERDS2TJ103	10k / J / 0.25W
CAPACITORS		
C538	RPE132F104	Capacitor
C539/540	ECBT1H102KB5	1000P / 50V
C565	RPE122E105	Capacitor
TRANSISTORS		
Q535	2SC3311A	Transistor
Q536	PN168	Photo Transistor
OTHERS		
CN526	PBILS5PS2L2	Connector
CN527	ILS4PS2L2EF	Connector
	PBHRA0055Z	Spacer

TOP PREVIOUS NEXT

16.20 ENDING (FRONT) LED Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
DIODES		
D508	TLN119	LED
OTHERS		
CN528	ILS4PS2L2EF	Connector
	PBHRA0055Z	Spacer

TOP PREVIOUS NEXT

16.21 POST IMPRINTER DOOR Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R562	ERDS2TJ103	10k / J / 0.25W
R563	ERDS2TJ331	330 / J / 0.25W
CAPACITORS		
C544	RPE132F104	Capacitor
TRANSISTORS		
Q539	2SC3311A	Transistor
ICs		
IC514	TLP832	Photo Interrupter
OTHERS		
CN530	B5B-PH-K-R	Connector

TOP PREVIOUS NEXT

16.22 DC-DC CONVERTER Board

Ref. No.	Part No.	Part Name & Description
RESISTORS		
R861	ERDS2TJ683	68k / J / 0.25W
R862	ERDS2TJ682	6.8k / J / 0.25W
R863	ERX12SJR56	0.56 / J / 0.5W
R864	ER0S2TKF5762	57.6k / F / 0.25W
R865	ER0S2TKF1242	12.4k / F / 0.25W
R866	ERX12SJR56	0.56 / J / 0.5W
R867	ER0S2TKF7871	7.87k / F / 0.25W
R868	ER0S2TKF3652	36.5k / F / 0.25W
R869	ERDS2TJ100	10 / J / 0.25W
R870	RUE300	Switch
CAPACITORS		
C861	50YXF330MT8	330 / 50V
C862	ECQV1H104JL3	0.1 / J / 50V
C863	10YXF1000MT8	1000 / 10V
C864	35YXF330MT8	330 / 35V
C865	ECQB1H681JF3	680P / J / 50V
C866	10YXF1000MT8	1000 / 10V
C867	ECFF1H104ZF5	0.1 / Z / 50V
C868	35YXF220MT8	220 / 35V
C869	35YXF330MT8	330 / 35V
C870	ECQB1H391JF3	390P / J / 50V
C871	10YXF1000MT8	1000 / 10V
C872	ECFF1H104ZF5	0.1 / Z / 50V
C873	35YXF220MT8	220 / 35V
DIODES		
D861	YG802C06R	Diode
D862	ERA91-02	Diode
D863/864	MA165	Diode
D865	RD7.5ESAB3	Zener Diode

D866	RD5.1ESAB2	Zener Diode
D867	MA165	Diode
D868	ERA91-02	Diode
D869	MA165	Diode
D870	RD7.5ESAB3	Zener Diode
D871	MA165	Diode
D872	RD5.1ESAB2	Zener Diode
COILS		
L861	HK10S080-121	Coil
L862	RCH895-151K	Coil
L863	RCH895-221K	Coil
ICs		
IC861	NJM2367TLA20	IC(DC-DC Converter)
IC862	NJM2360AD	IC
IC863	NJM78M05FA	IC
IC865	NJM2360AD	IC
IC866	NJM79M05FA	IC
OTHERS		
CN861	B11B-XASK-1	Connector
CN862	B12B-XASK-1	Connector
	0SH-1030-MP	Heat Sink
	XYN3+J8FX	Screw

TOP PREVIOUS NEXT

16.23 POWER Board

TOP PREVIOUS NEXT

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R801	ERDS1TJ105	1000k / J / 0.5W	⚠
R802/803	ERDS1TJ124	120k / J / 0.5W	
R804	ERX2SJ4R7P	4.7 / J / 2W	
R805	ERDS2TJ103	10k / J / 0.25W	
R806	ERG2SJ100P	10 / J / 2W	
R807	MPC710.22K	Resistor	
R808	ERDS2TJ101	100 / J / 0.25W	
R809	ERDS1TJ100	10 / J / 0.5W	
R811	ER0S2TKF4701	4.7k / F / 0.25W	
R812	ERDS2TJ222	2.2k / J / 0.25W	
R813	ERDS2TJ681	680 / J / 0.25W	
R814-816	ERDS1TJ333	33k / J / 0.5W	
R817	ERG2SJ150P	15 / J / 2W	
R818	ERDS2TJ103	10k / J / 0.25W	
R819	ERDS2TJ333	33k / J / 0.25W	
R820	ERDS2TJ472	4.7k / J / 0.25W	
R831	ERG2SJ101P	100 / J / 2W	
R832/833	ERDS2TJ121	120 / J / 0.25W	
R834	ERDS2TJ101	100 / J / 0.25W	
R835	ER0S2TKF8871	8.87k / F / 0.25W	
R837	ER0S2TKF1001	1k / F / 0.25W	
R838	ERDS2TJ222	2.2k / J / 0.25W	
R839	ERDS2TJ332	3.3k / J / 0.25W	
R840/841	ERDS2TJ103	10k / J / 0.25W	
R842	ERDS2TJ821	820 / J / 0.25W	
R843	ERDS2TJ120	12 / J / 0.25W	
R844	ERDS2TJ472	4.7k / J / 0.25W	
R845	ERDS2TJ470	47 / J / 0.25W	
R846	ERDS2TJ332	3.3k / J / 0.25W	
R847	ERG1SJ470P	47 / J / 0.5W	

CAPACITORS			
C801/802	PA224-ZC	0.227 / AC125V	⚠
C803/804	ECKATS222ME	Capacitor	⚠
C805/806	250SXR560MC4	560 / 250V	⚠
C807	ECKD3A101KB	100P / J / 1kV	
C808	ECKATS103MF	Capacitor	⚠
C809	ECQE6473KF3	Capacitor	
C810	ECQB1H473JF3	0.047 / J / 50V	
C811	ECA2WHG4R7	4.7 / 450V	
C812	50YXF1M	1 / 50V	
C813	50YXF47M	47 / 50V	
C814	ECQB1H391JF3	390P / J / 50V	
C815	ECQV1H224JL	0.22 / J / 50V	
C816	ECQB1H473JF3	0.047 / J / 50V	
C817	ECQB1H682JF3	6800P / J / 50V	
C818	ECFF1H104ZF5	0.1 / Z / 50V	
C831	ECKD3A101KB	100P / J / 1kV	
C832	35YXF2200MKC	2200 / 35V	
C834	ECQV1H105JL3	1 / J / 50V	
C835	ECFF1H104ZF5	0.1 / Z / 50V	
C836	50YXF33M	33 / 50V	
C837	50YXF10M	10 / 50V	
COILS			
L801/802	ELF15N017A	Coil	⚠
L803	ETQR37C014A	FL Transformer	⚠
L821	HK14S0804010	Choke Coil	
L822/823	AB4X2X4.5W	Amorphous Bead	
DIODES			
D801	D3SBA60-4101	Bridge Diode	⚠
D802	ERA22-10AVRB	Diode	
D803	ERB44-10G1	Diode	
D804/805	ERA91-02	Diode	
D806	RD24ESAB1	Zener Diode	
D807	MA165	Diode	

D821	YG902C3R	Diode	
D825	RD7.5ESAB3	Zener Diode	
D826	D1N60	Diode	
D827	RD27ESAB4	Zener Diode	
D828-831	MA165	Diode	
ZNR803/804	240NS10D-301	Zener Diode	⚠
TRNSISTORS			
Q801	2SK2651-01MR	Power MOS FET	⚠
Q802	2SD1994A-S	Transistor	
Q821	2SJ334	Transistor	
Q822	2SC3311A	Transistor	
ICs			
IC801	STR83159	IC	⚠
IC802	PJVIFA5311P	IC	
IC803	HA17431PA	IC	
IC804	HA17L431P	IC	
OTHERS			
PC801/802	TLP621-D4GR	Photo Diode	⚠
CN801	B2P3-VH	Connector	⚠
CN802	B11B-XASK-1	Connector	
CN803	B3B-EH	Connector	
F801/802	PB215004	Fuse	⚠
T801	SRW3333ED609	Transformer	⚠
TH801	N100L12325JF	Thermistor	⚠
ZNR801/802	470NS10D-K0	Varistor	⚠
	FA35-9051	Insulation Sheet	
	PAUX37802	Ground Lug	
	PBMYA0011Z	Heat Sink	
	M1847	Bushing	
	TJC6320	Holder	
	XNG3BFX	Nut	
	XTN3+8JFX	Screw	
	XTW3+U8SFX	Screw	
	XYN3+J10FX	Screw	

17 Schematic Diagram for printing with A4 size

TOP PREVIOUS NEXT

17.1 MAIN CONTROL Board

17.2 SCSI Board

17.3 MOTHER Board

17.4 DRIVE Board

17.5 PANEL Board

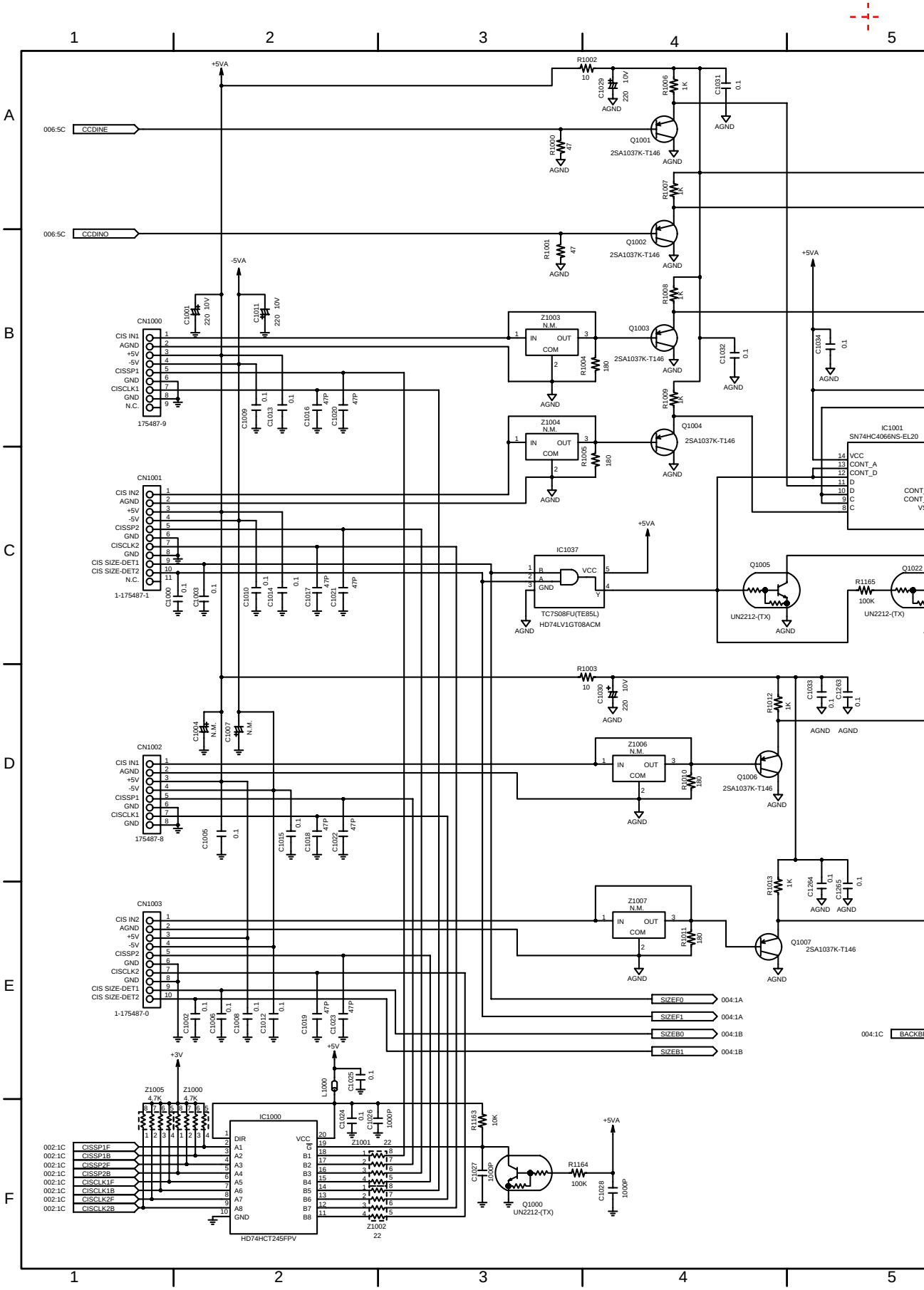
17.6 RELAY LOWER and UPPER Boards

17.7 SENSOR Boards

17.8 DC-DC CONVERTER and POWER Boards

TOP PREVIOUS NEXT

17.1 MAIN CONTROL Board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Z1004 N.M.
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Z1007 N.M.
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Q1000 UN2212-(TX)
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IC1001 SN74HC4066NS-EL20
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SIZEB0 004:1B
SIZEB1 004:1B
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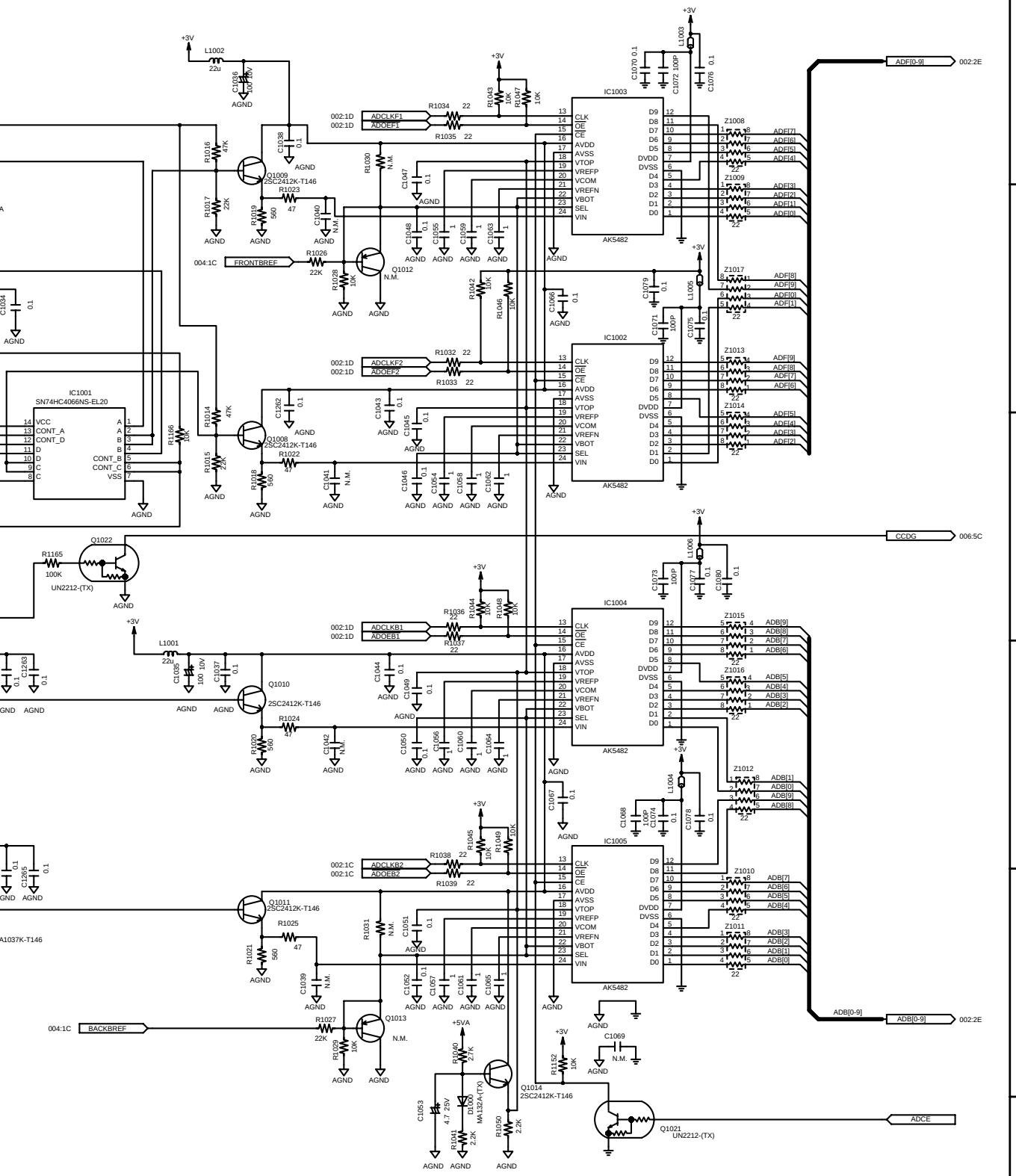
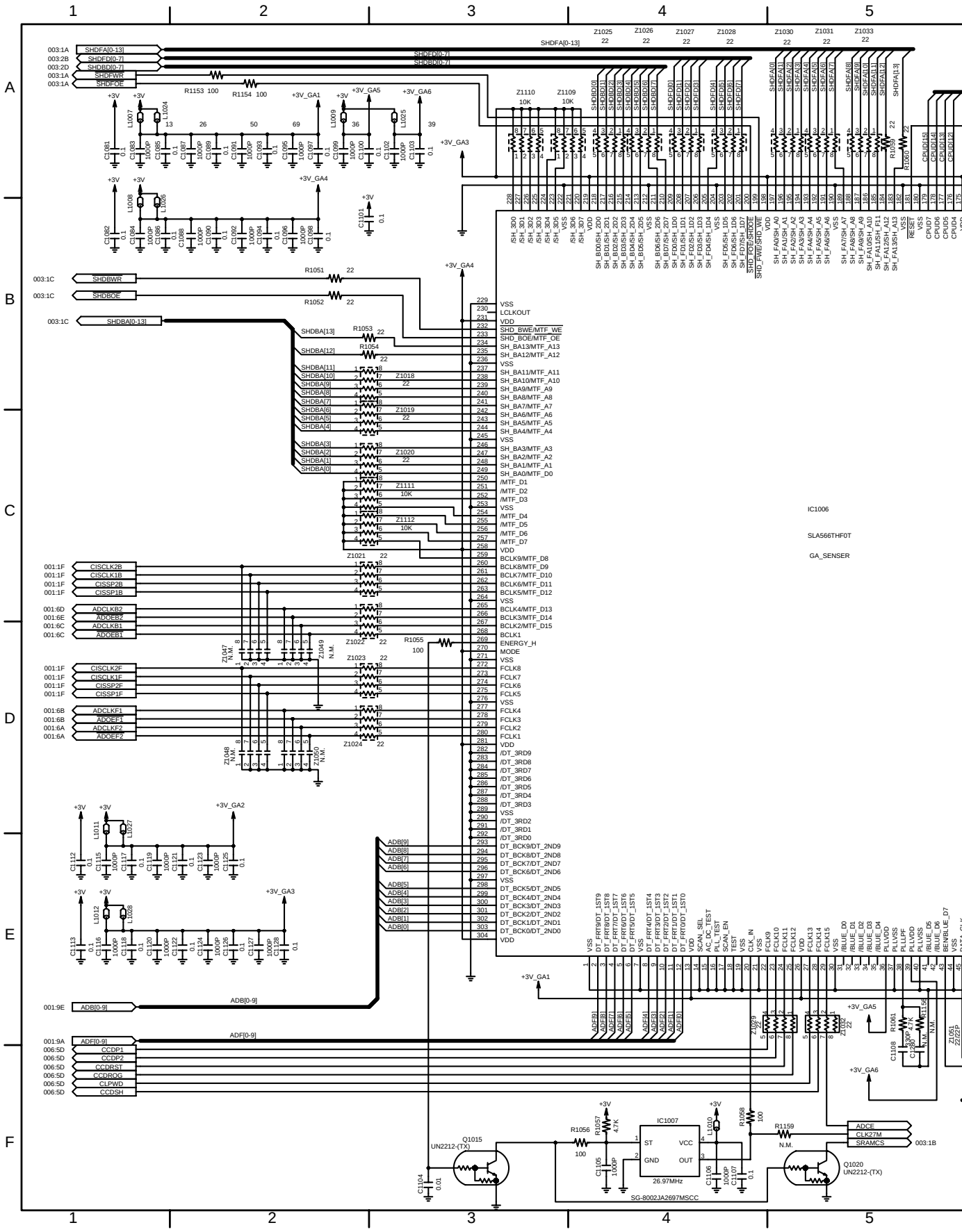


(Main Control Board)

KV-S2065/S6055/S6050

1/6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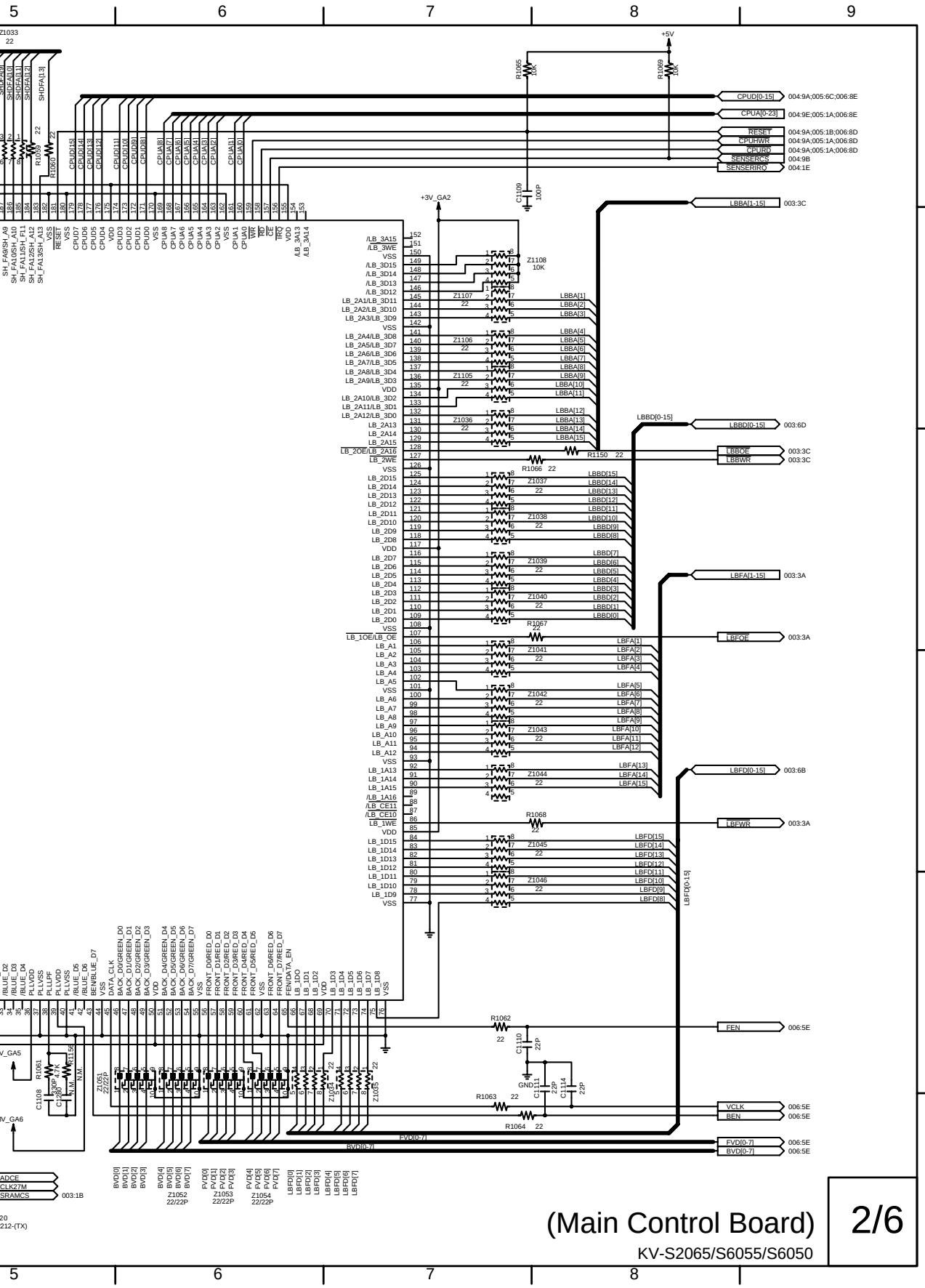
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CPUD[0-15]
004:9A;005:6C;006:8E
CPUA[0-23]
004:9E;005:1A;006:8E
RESET
004:9A;005:1B;006:8D
CPUHWR
004:9A;005:1A;006:8D
CPURD
004:9A;005:1A;006:8D
SENSERCS
004:9B
SENSERIRQ
004:1E
LBBA[1-15]
003:3C
LBBD[0-15]
003:6D
LBBOE
003:3C
LBBWR
003:3C
LBFA[1-15]
003:3A
LBFOE
003:3A
LBFD[0-15]
003:6B
LBFWR
003:3A
FEN
006:5E
VCLK
006:5E
BEN
006:5E
FVD[0-7]
006:5E
BVD[0-7]
006:5E
ADCE
CLK27M
SRAMCS
003:1B
(Main Control Board)
KV-S2065/S6055/S6050
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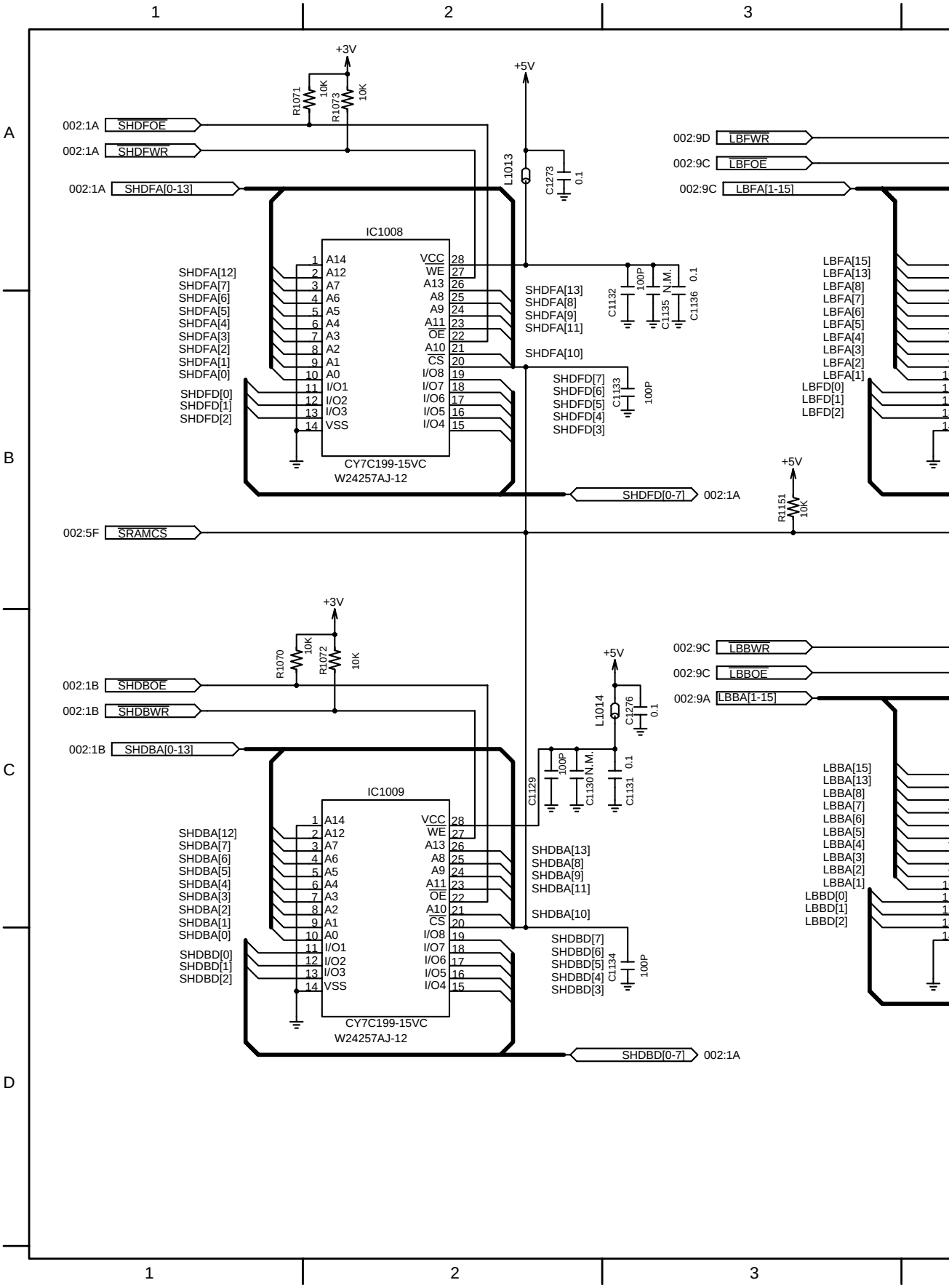
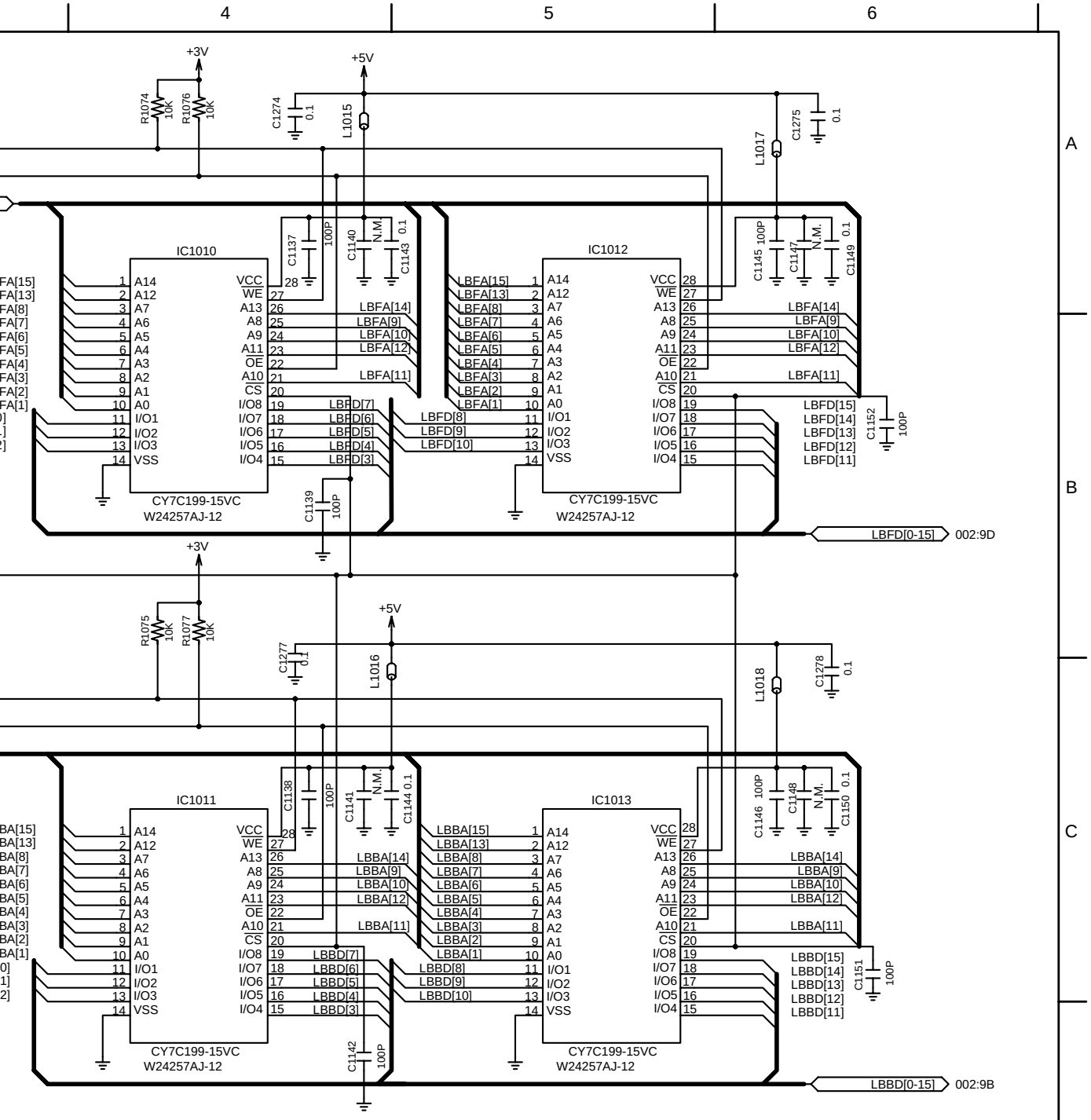

1
2
3
A
B
C
D
+3V
+5V
R1071 10K
R1073 10K
002:1A SHDFOE
002:1A SHDFWR
002:1A SHDFA[0-13]
L1013
C1273 0.1
IC1008
SHDFA[12]
SHDFA[7]
SHDFA[6]
SHDFA[5]
SHDFA[4]
SHDFA[3]
SHDFA[2]
SHDFA[1]
SHDFA[0]
SHDFD[0]
SHDFD[1]
SHDFD[2]
A14 A12 A7 A6 A5 A4 A3 A2 A1 A0 I/O1 I/O2 I/O3 VSS
VCC WE A13 A8 A9 A11 OE A10 CS I/O8 I/O7 I/O6 I/O5 I/O4
SHDFA[13]
SHDFA[8]
SHDFA[9]
SHDFA[11]
SHDFA[10]
SHDFD[7]
SHDFD[6]
SHDFD[5]
SHDFD[4]
SHDFD[3]
C1132 100P
C1135 N.M.
C1136 0.1
C1133 100P
CY7C199-15VC
W24257AJ-12
SHDFD[0-7] 002:1A
002:9D LBFWR
002:9C LBFOE
002:9C LBFA[1-15]
LBFA[15]
LBFA[13]
LBFA[8]
LBFA[7]
LBFA[6]
LBFA[5]
LBFA[4]
LBFA[3]
LBFA[2]
LBFA[1]
LBFD[0]
LBFD[1]
LBFD[2]
R1151 10K
002:5F SRAMCS
R1070 10K
R1072 10K
002:1B SHDBOE
002:1B SHDBWR
002:1B SHDBA[0-13]
L1014
C1276 0.1
IC1009
SHDBA[12]
SHDBA[7]
SHDBA[6]
SHDBA[5]
SHDBA[4]
SHDBA[3]
SHDBA[2]
SHDBA[1]
SHDBA[0]
SHDBD[0]
SHDBD[1]
SHDBD[2]
A14 A12 A7 A6 A5 A4 A3 A2 A1 A0 I/O1 I/O2 I/O3 VSS
VCC WE A13 A8 A9 A11 OE A10 CS I/O8 I/O7 I/O6 I/O5 I/O4
SHDBA[13]
SHDBA[8]
SHDBA[9]
SHDBA[11]
SHDBA[10]
SHDBD[7]
SHDBD[6]
SHDBD[5]
SHDBD[4]
SHDBD[3]
C1129 100P
C1130 N.M.
C1131 0.1
C1134 100P
CY7C199-15VC
W24257AJ-12
SHDBD[0-7] 002:1A
002:9C LBBWR
002:9C LBBOE
002:9A LBBA[1-15]
LBBA[15]
LBBA[13]
LBBA[8]
LBBA[7]
LBBA[6]
LBBA[5]
LBBA[4]
LBBA[3]
LBBA[2]
LBBA[1]
LBBD[0]
LBBD[1]
LBBD[2]



(Main Control Board)

KV-S2065/S6055/S6050

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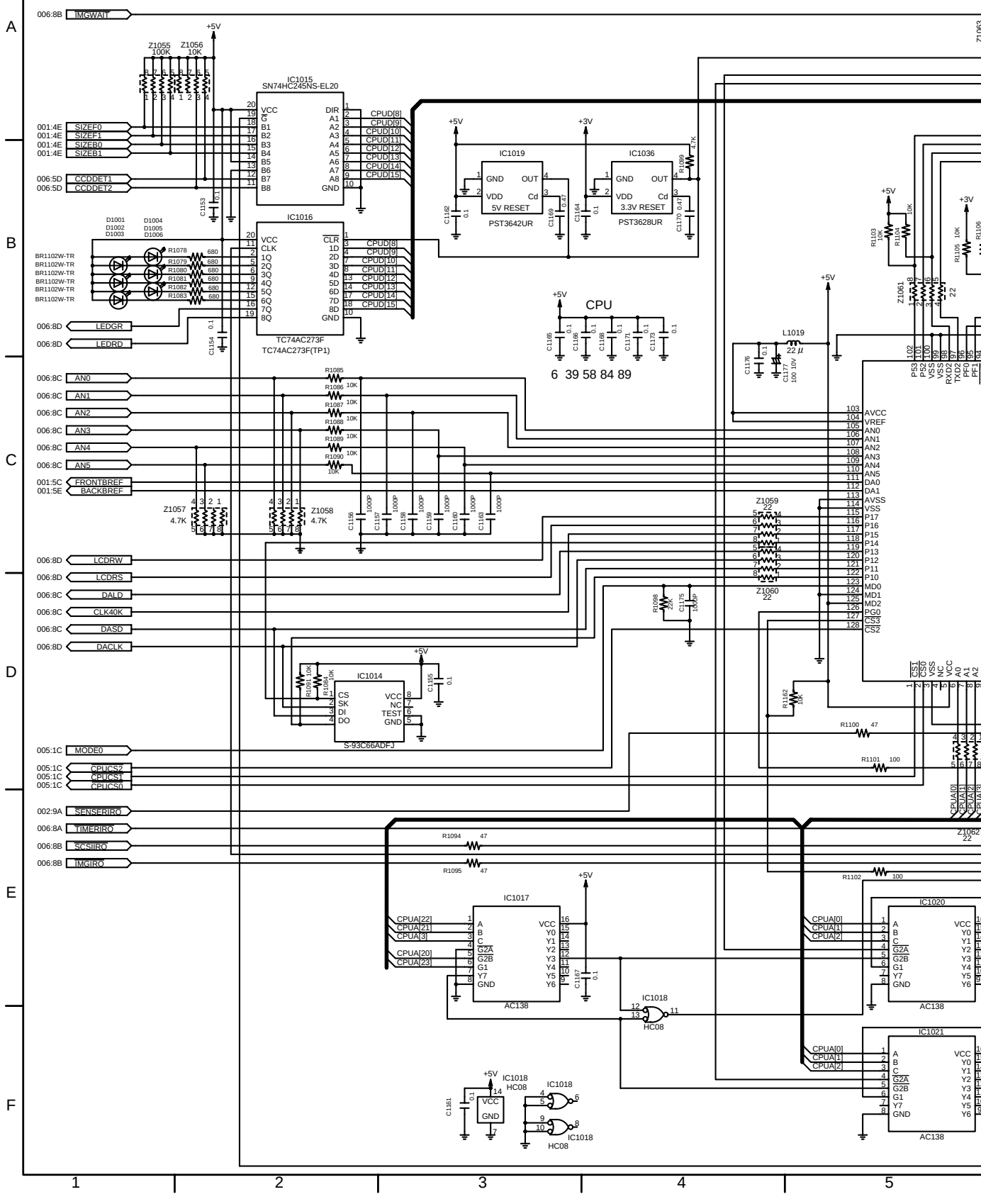
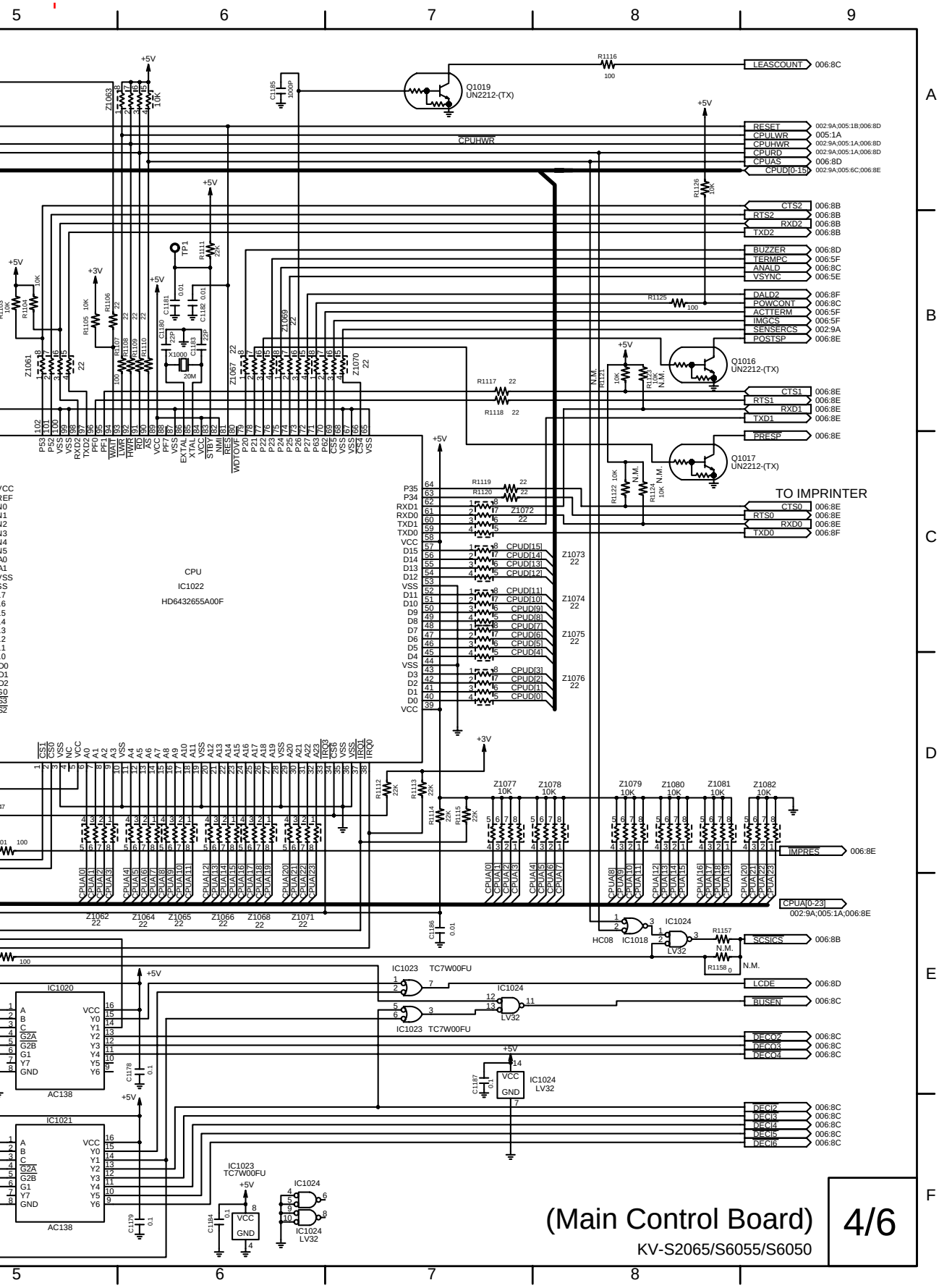

IMGWAIT
SIZEF0
SIZEF1
SIZEB0
SIZEB1
CCDDET1
CCDDET2
LEDGR
LEDRD
AN0
AN1
AN2
AN3
AN4
AN5
FRONTBREF
BACKBREF
LCDRW
LCDRS
DALD
CLK40K
DASD
DACLK
MODE0
CPUCS2
CPUCS1
CPUCS0
SENSERIRQ
TIMERIRQ
SCSIIRQ
IMGIRQ
IC1015
SN74HC245NS-EL20
IC1016
TC74AC273F
TC74AC273F(TP1)
IC1019
PST3642UR
IC1036
PST3628UR
IC1014
S-93C66ADFJ
IC1017
AC138
IC1018
HC08
IC1020
IC1021
CPU
L1019
22 μ
Z1057
4.7K
Z1058
4.7K
Z1059
Z1060
Z1061
Z1062
+5V
+3V


LEASCOUNT 006:8C
RESET 002:9A;005:1B;006:8D
CPUWR 005:1A
CPUHWR 002:9A;005:1A;006:8D
CPURD 002:9A;005:1A;006:8D
CPUAS 006:8D
CPUD[0-15] 002:9A;005:6C;006:8E
CTS2 006:8B
RTS2 006:8B
RXD2 006:8B
TXD2 006:8B
BUZZER 006:8D
TERMPC 006:5F
ANALD 006:8C
VSYNC 006:5E
DALD2 006:8F
POWCONT 006:8C
ACTTERM 006:5F
IMGCS 006:5F
SENSERCS 002:9A
POSTSP 006:8E
CTS1 006:8E
RTS1 006:8E
RXD1 006:8E
TXD1 006:8E
PRESP 006:8E
TO IMPRINTER
CTS0 006:8E
RTS0 006:8E
RXD0 006:8E
TXD0 006:8F
IMPRES 006:8E
CPUA[0-23] 002:9A;005:1A;006:8E
SCSICS 006:8B
LCDE 006:8D
BUSEN 006:8C
DECO2 006:8C
DECO3 006:8C
DECO4 006:8C
DECI2 006:8C
DECI3 006:8C
DECI4 006:8C
DECI5 006:8C
DECI6 006:8C
CPU
IC1022
HD6432655A00F
Q1019 UN2212-(TX)
Q1016 UN2212-(TX)
Q1017 UN2212-(TX)
IC1020 AC138
IC1021 AC138
IC1023 TC7W00FU
IC1024 LV32
HC08 IC1018
(Main Control Board)
KV-S2065/S6055/S6050
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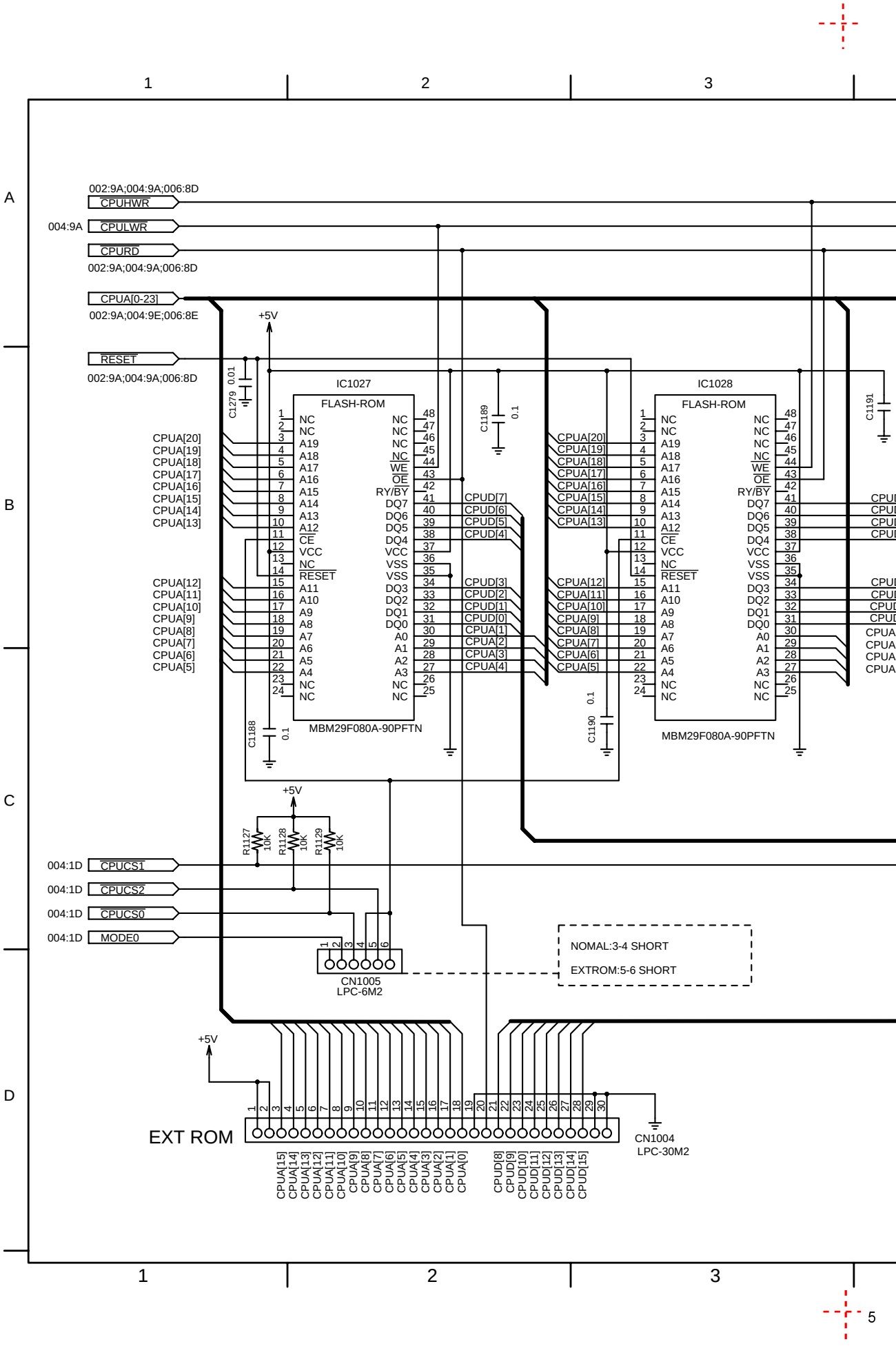
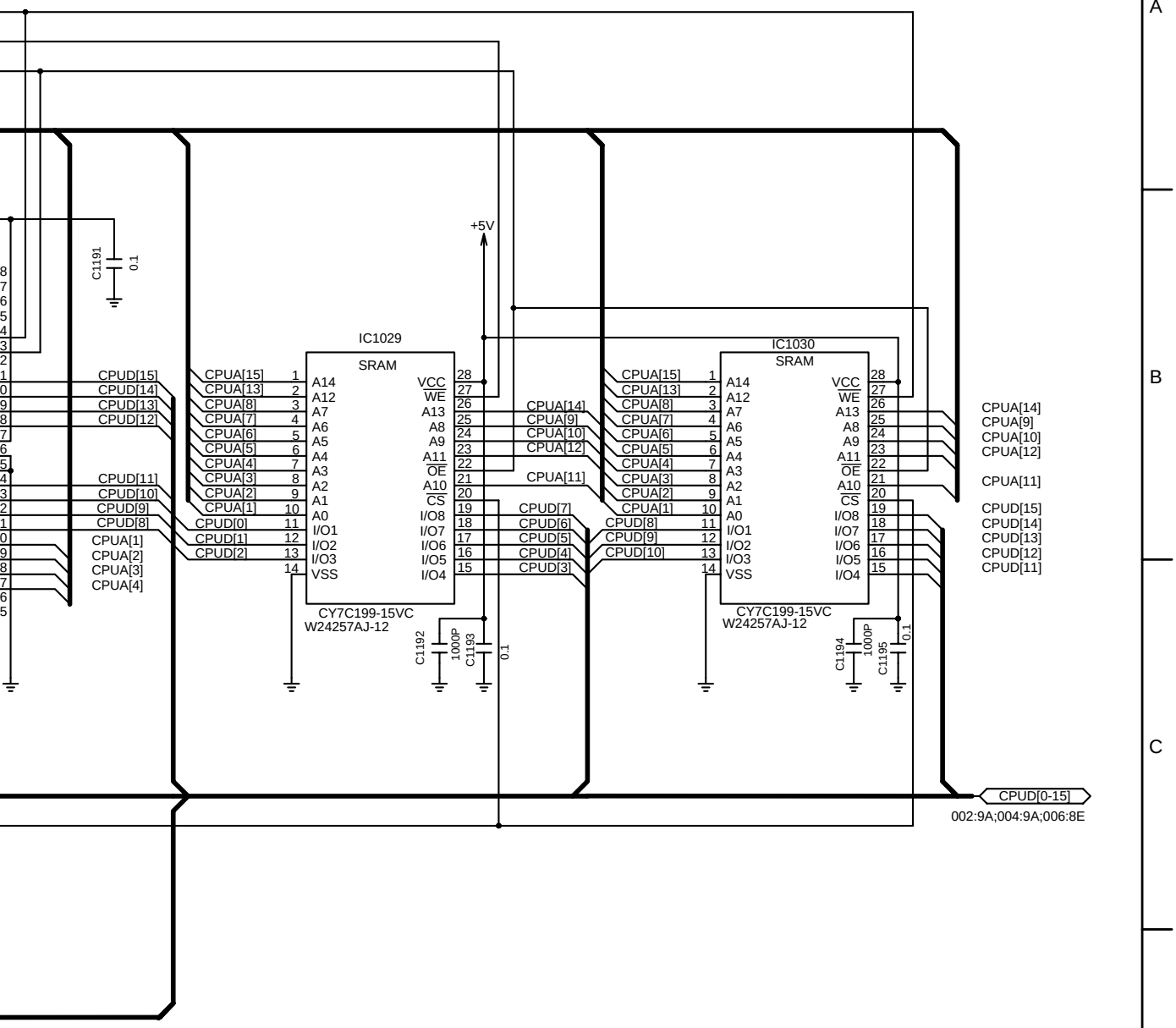

002:9A;004:9A;006:8D
CPUHWR
004:9A
CPULWR
CPURD
002:9A;004:9A;006:8D
CPUA[0-23]
002:9A;004:9E;006:8E
+5V
RESET
002:9A;004:9A;006:8D
C1279 0.01
IC1027
FLASH-ROM
MBM29F080A-90PFTN
IC1028
FLASH-ROM
MBM29F080A-90PFTN
C1189 0.1
C1188 0.1
C1190 0.1
C1191
CPUA[20]
CPUA[19]
CPUA[18]
CPUA[17]
CPUA[16]
CPUA[15]
CPUA[14]
CPUA[13]
CPUA[12]
CPUA[11]
CPUA[10]
CPUA[9]
CPUA[8]
CPUA[7]
CPUA[6]
CPUA[5]
CPUD[7]
CPUD[6]
CPUD[5]
CPUD[4]
CPUD[3]
CPUD[2]
CPUD[1]
CPUD[0]
CPUA[1]
CPUA[2]
CPUA[3]
CPUA[4]
+5V
R1127 10K
R1128 10K
R1129 10K
004:1D CPUCS1
004:1D CPUCS2
004:1D CPUCS0
004:1D MODE0
CN1005
LPC-6M2
NOMAL:3-4 SHORT
EXTROM:5-6 SHORT
+5V
EXT ROM
CN1004
LPC-30M2
CPUA[15]
CPUA[14]
CPUA[13]
CPUA[12]
CPUA[11]
CPUA[10]
CPUA[9]
CPUA[8]
CPUA[7]
CPUA[6]
CPUA[5]
CPUA[4]
CPUA[3]
CPUA[2]
CPUA[1]
CPUA[0]
CPUD[8]
CPUD[9]
CPUD[10]
CPUD[11]
CPUD[12]
CPUD[13]
CPUD[14]
CPUD[15]



(Main Control Board)

KV-S2065/S6055/S6050

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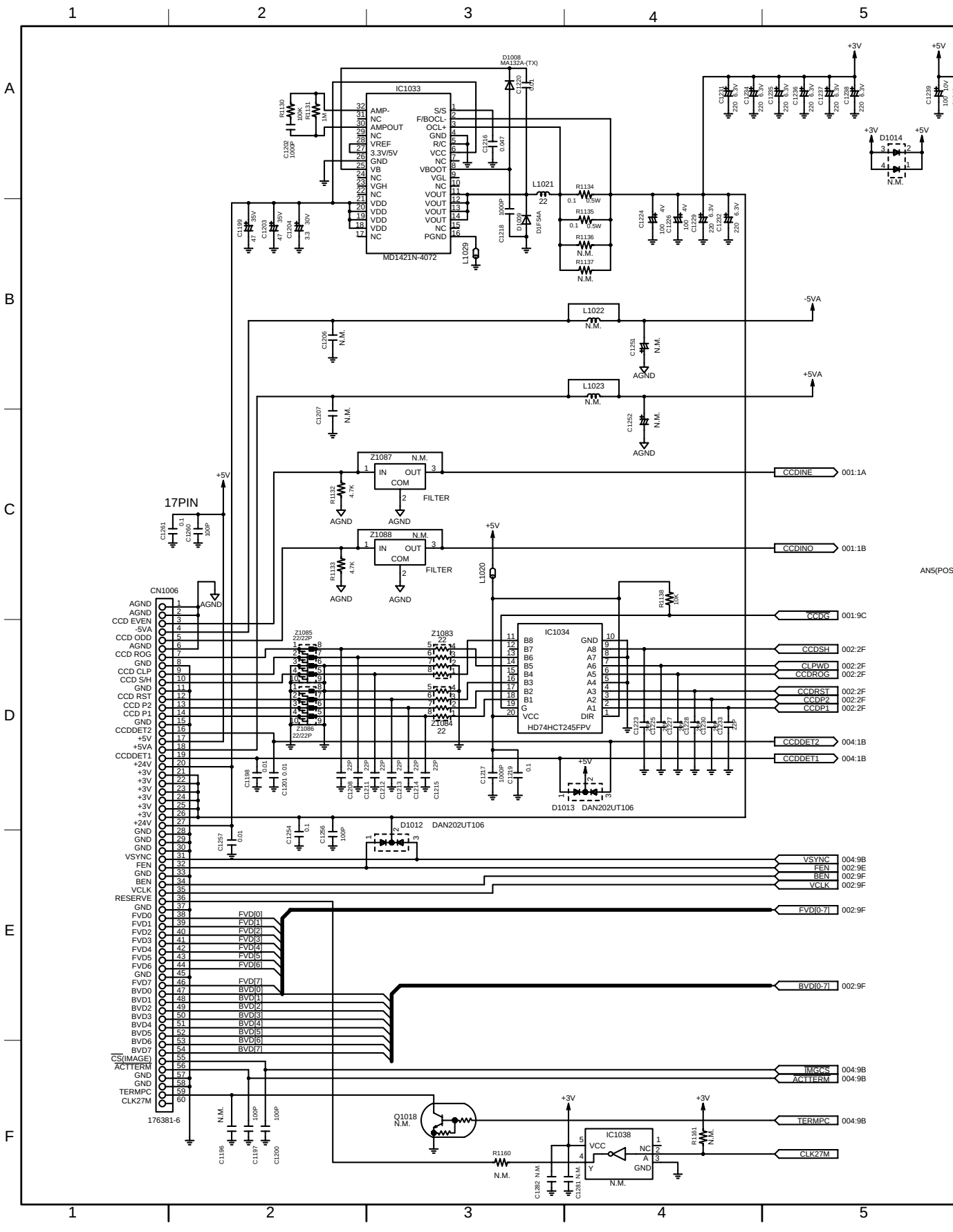
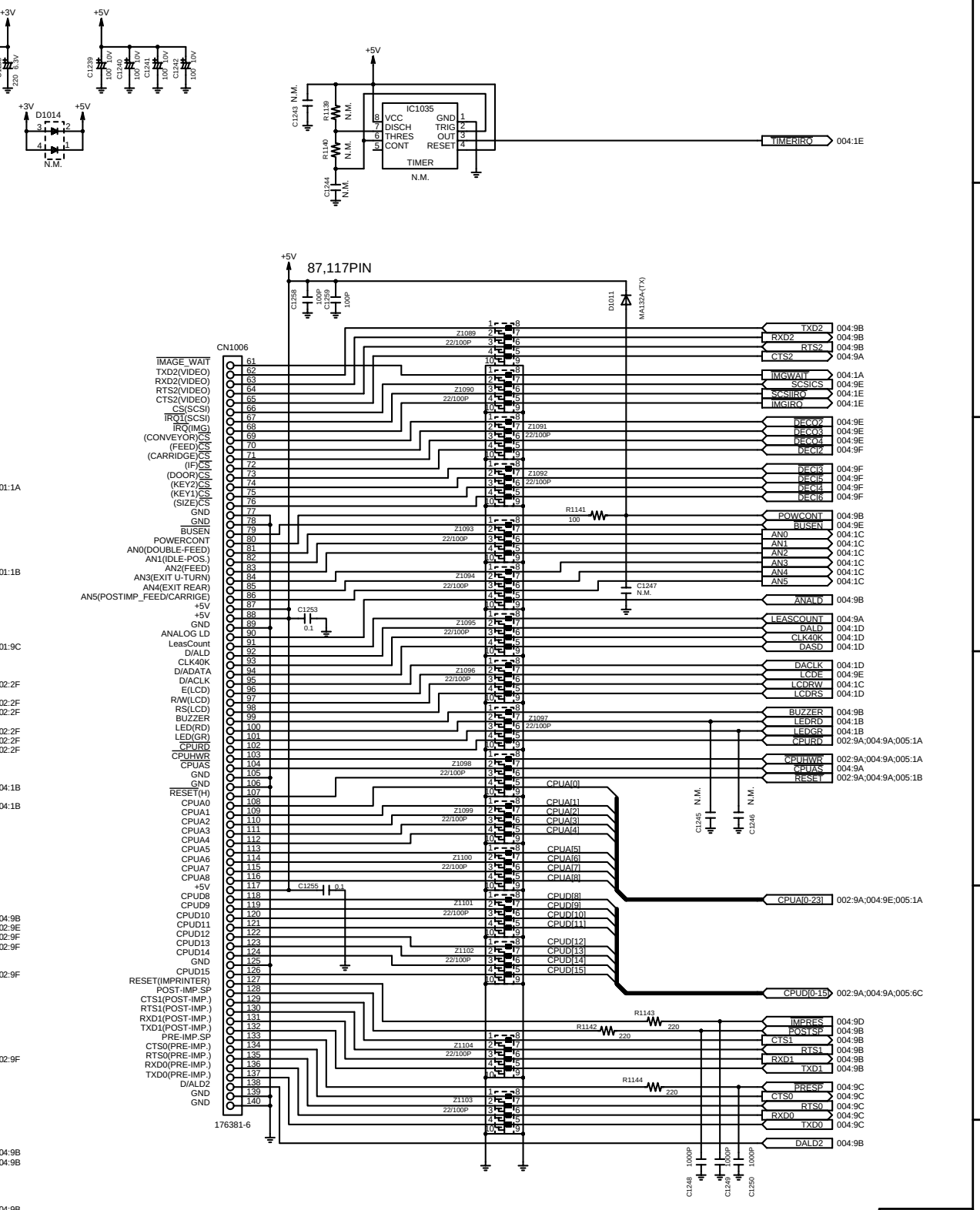

IC1033
MD1421N-4072
D1008
MA132A-(TX)
L1021
22
L1022
N.M.
L1023
N.M.
-5VA
+5VA
AGND
Z1087
N.M.
IN
OUT
COM
FILTER
Z1088
N.M.
IN
OUT
COM
FILTER
17PIN
CN1006
176381-6
IC1034
HD74HCT245FPV
D1013 DAN202UT106
D1012 DAN202UT106
D1014
N.M.
IC1038
Q1018
N.M.
CCDINE 001:1A
CCDINO 001:1B
CCDG 001:9C
CCDSH 002:2F
CLPWD 002:2F
CCDROG 002:2F
CCDRST 002:2F
CCDP2 002:2F
CCDP1 002:2F
CCDDET2 004:1B
CCDDET1 004:1B
VSYNC 004:9B
FEN 002:9E
BEN 002:9F
VCLK 002:9F
FVD[0-7] 002:9F
BVD[0-7] 002:9F
IMGCS 004:9B
ACTTERM 004:9B
TERMPC 004:9B
CLK27M
AN5(POS



(Main Control Board)

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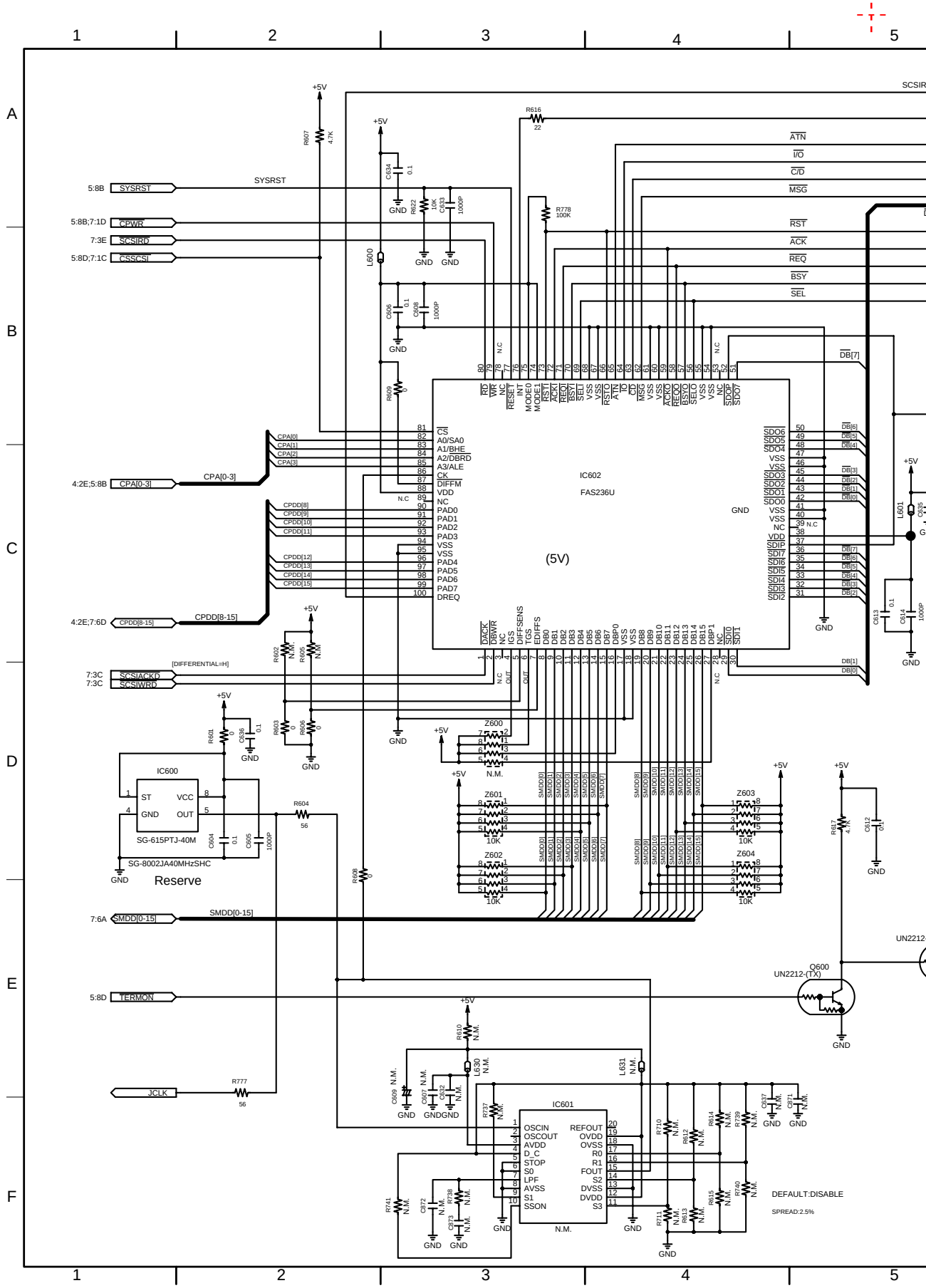
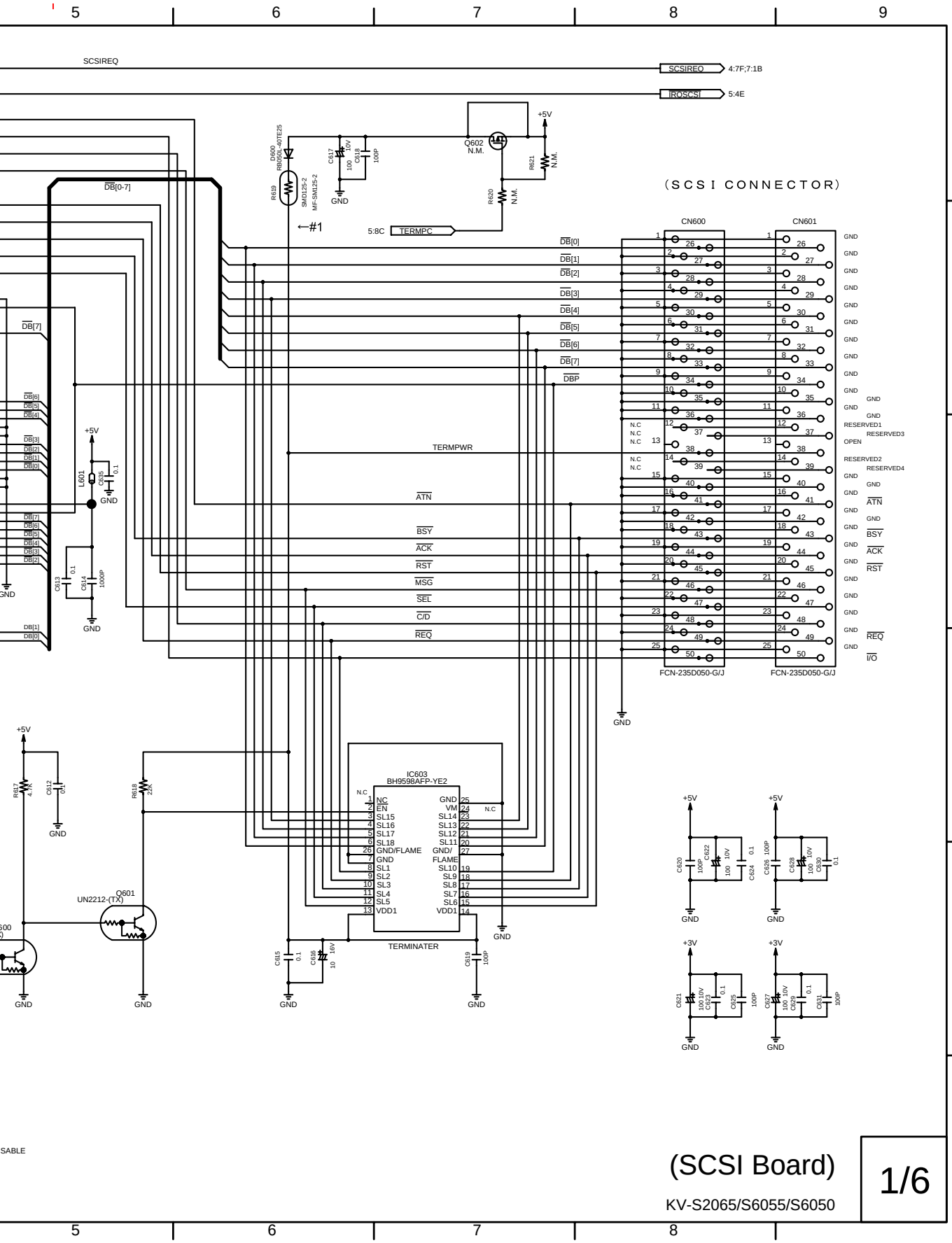
17.2 SCSI Board


IC602
FAS236U
(5V)
IC600
SG-615PTJ-40M
SG-8002JA40MHzSHC
Reserve
IC601
Q600
UN2212-(TX)
DEFAULT:DISABLE
SPREAD:2.5%
SYSRST
CPWR
SCSIRD
CSSCSI
CPA[0-3]
CPDD[8-15]
SCSIACKD
SCSIWRD
TERMON
SMDD[0-15]
JCLK
[DIFFERENTIAL=H]
N.M.
GND
+5V


SCSIREQ
SCSIREQ 4:7F;7:1B
IROSCSI 5:4E
(SCSI CONNECTOR)
CN600
CN601
FCN-235D050-G/J
FCN-235D050-G/J
TERMPWR
ATN
BSY
ACK
RST
MSG
SEL
C/D
REQ
I/O
TERMPC 5:8C
IC603
BH9598AFP-YE2
TERMINATER
Q601
UN2212-(TX)
Q602
N.M.
(SCSI Board)
KV-S2065/S6055/S6050
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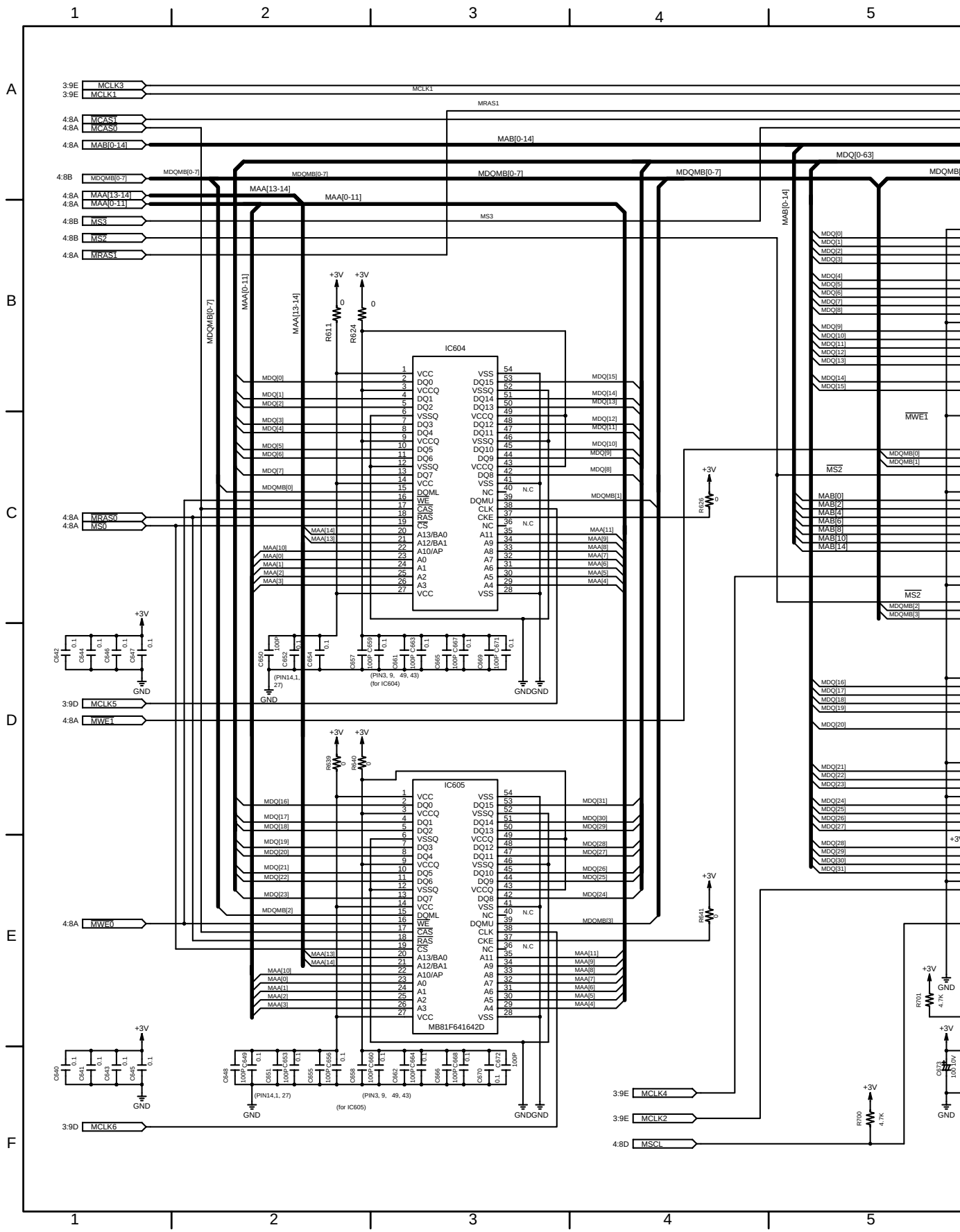
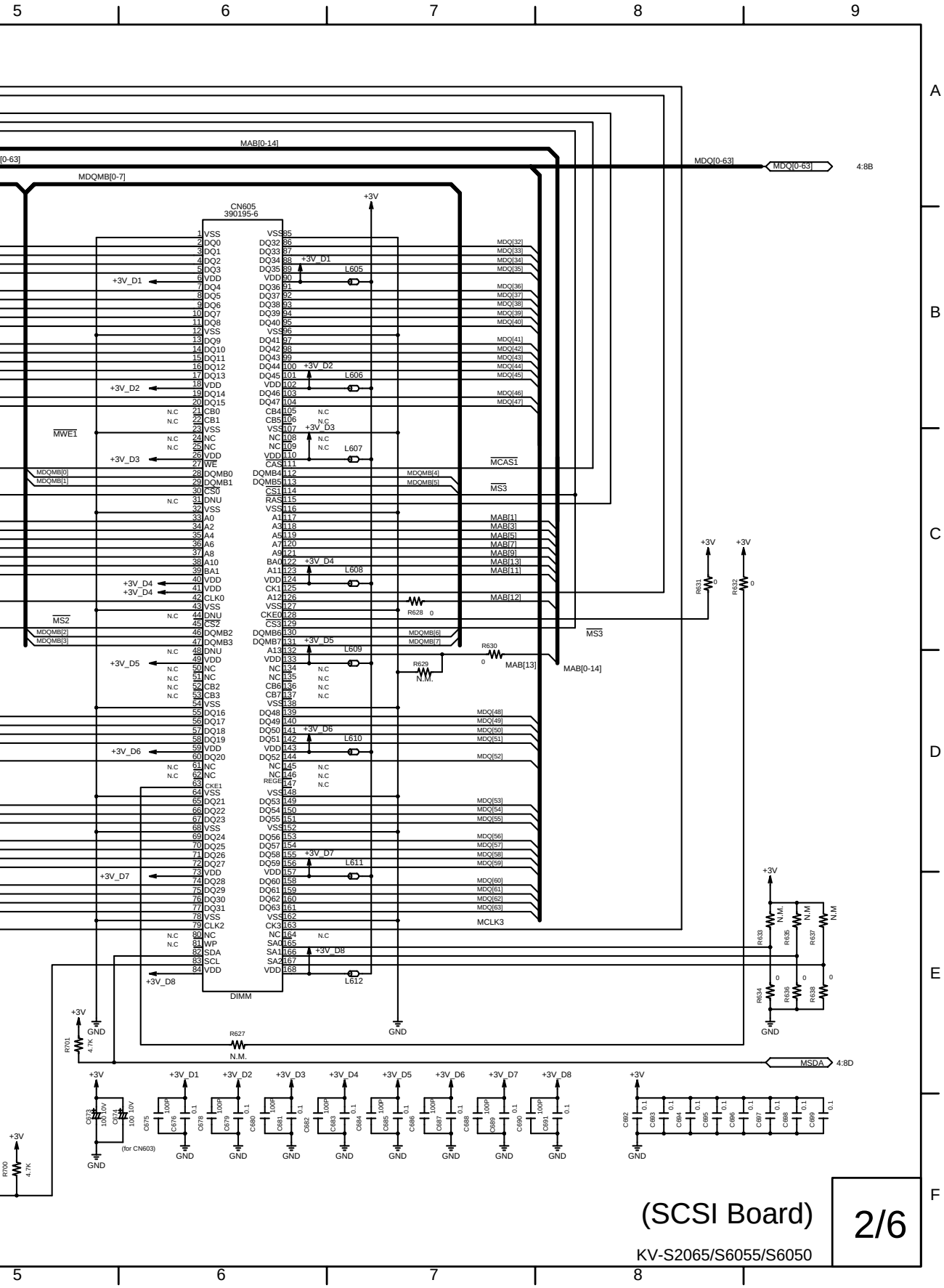

MCLK3
MCLK1
MCAS1
MCAS0
MAB[0-14]
MDQMB[0-7]
MAA[13-14]
MAA[0-11]
MS3
MS2
MRAS1
MRAS0
MS0
MWE1
MWE0
MCLK5
MCLK6
MCLK4
MCLK2
MSCL
MDQ[0-63]
IC604
IC605
MB81F641642D
+3V
GND
R611
R624
R626
R639
R640
R641
R700
R701
4.7K



(SCSI Board)

KV-S2065/S6055/S6050

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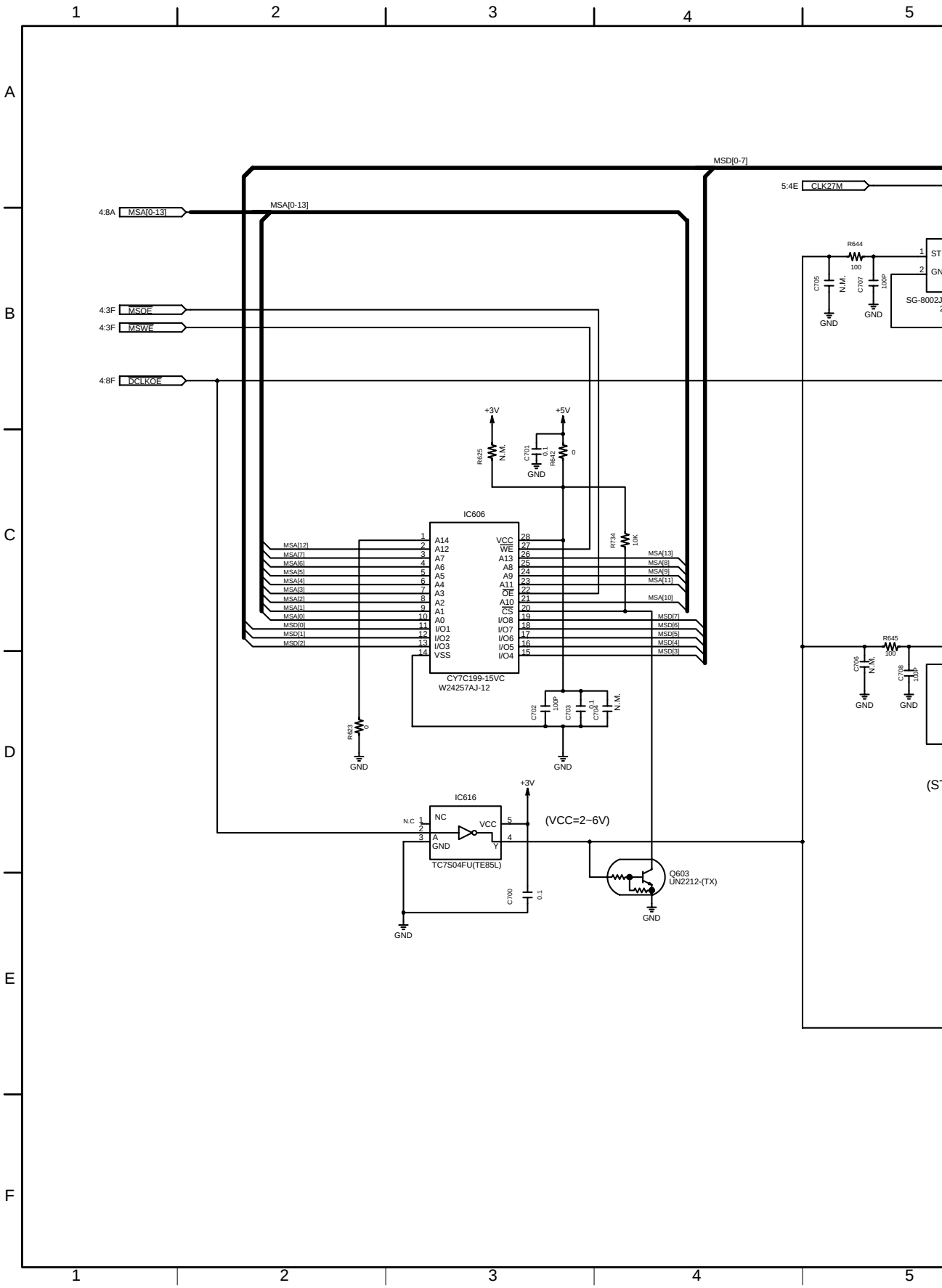
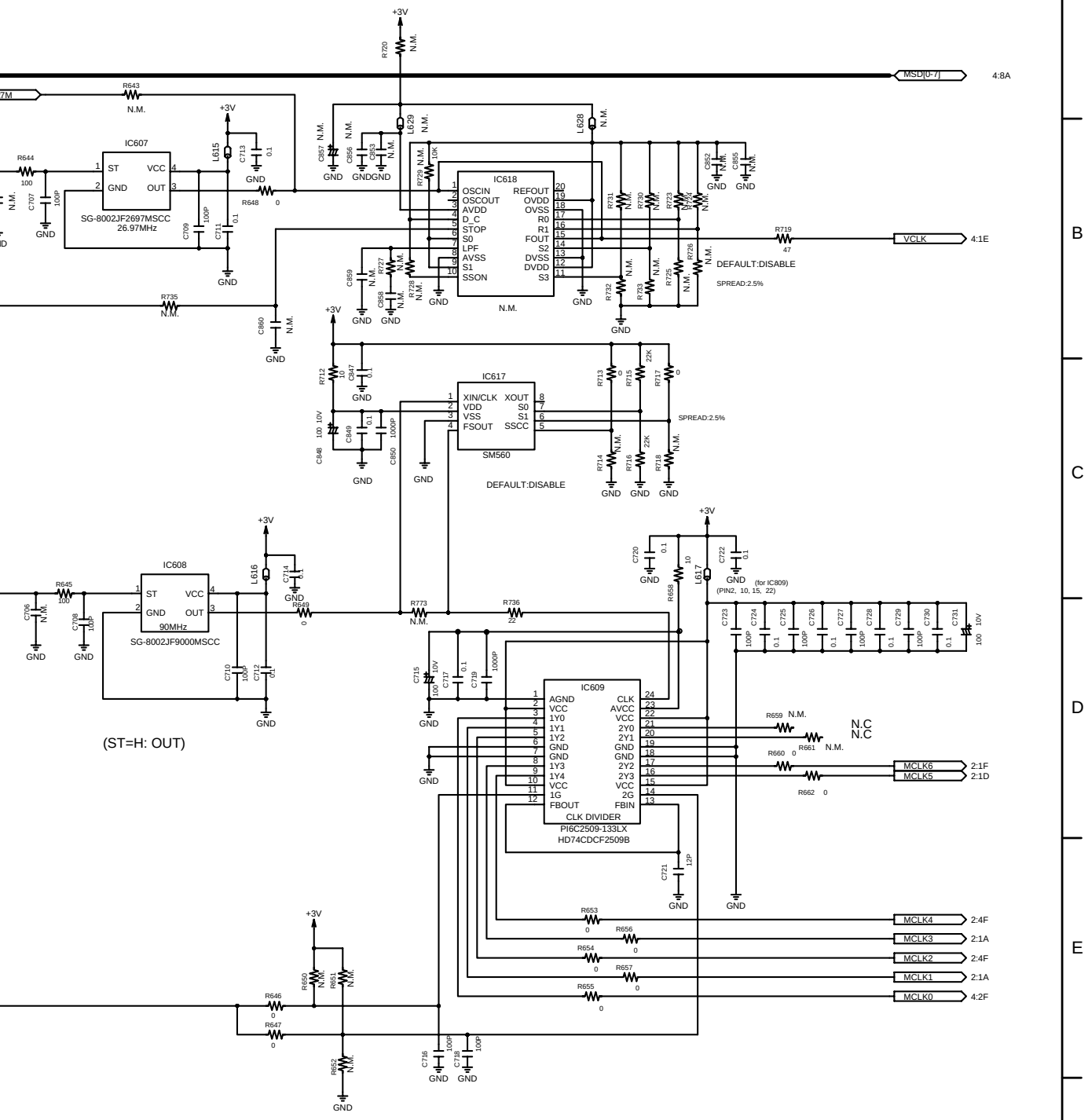

MSD[0-7]
5:4E CLK27M
4:8A MSA[0-13]
MSA[0-13]
4:3F MSOE
4:3F MSWE
4:8F DCLKOE
R644
100
C705
N.M.
C707
100P
GND
SG-8002J
+3V
+5V
R625
N.M.
C701
0.1
R642
0
IC606
R734
10K
MSA[12]
MSA[7]
MSA[6]
MSA[5]
MSA[4]
MSA[3]
MSA[2]
MSA[1]
MSA[0]
MSD[0]
MSD[1]
MSD[2]
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
I/O1
I/O2
I/O3
VSS
VCC
WE
A13
A8
A9
A11
OE
A10
CS
I/O8
I/O7
I/O6
I/O5
I/O4
MSA[13]
MSA[8]
MSA[9]
MSA[11]
MSA[10]
MSD[7]
MSD[6]
MSD[5]
MSD[4]
MSD[3]
CY7C199-15VC
W24257AJ-12
C702
100P
C703
0.1
C704
N.M.
R645
100
C706
N.M.
C708
100P
R623
0
IC616
N.C
NC
VCC
A
GND
Y
TC7S04FU(TE85L)
(VCC=2~6V)
C700
0.1
Q603
UN2212-(TX)



(SCSI Board)

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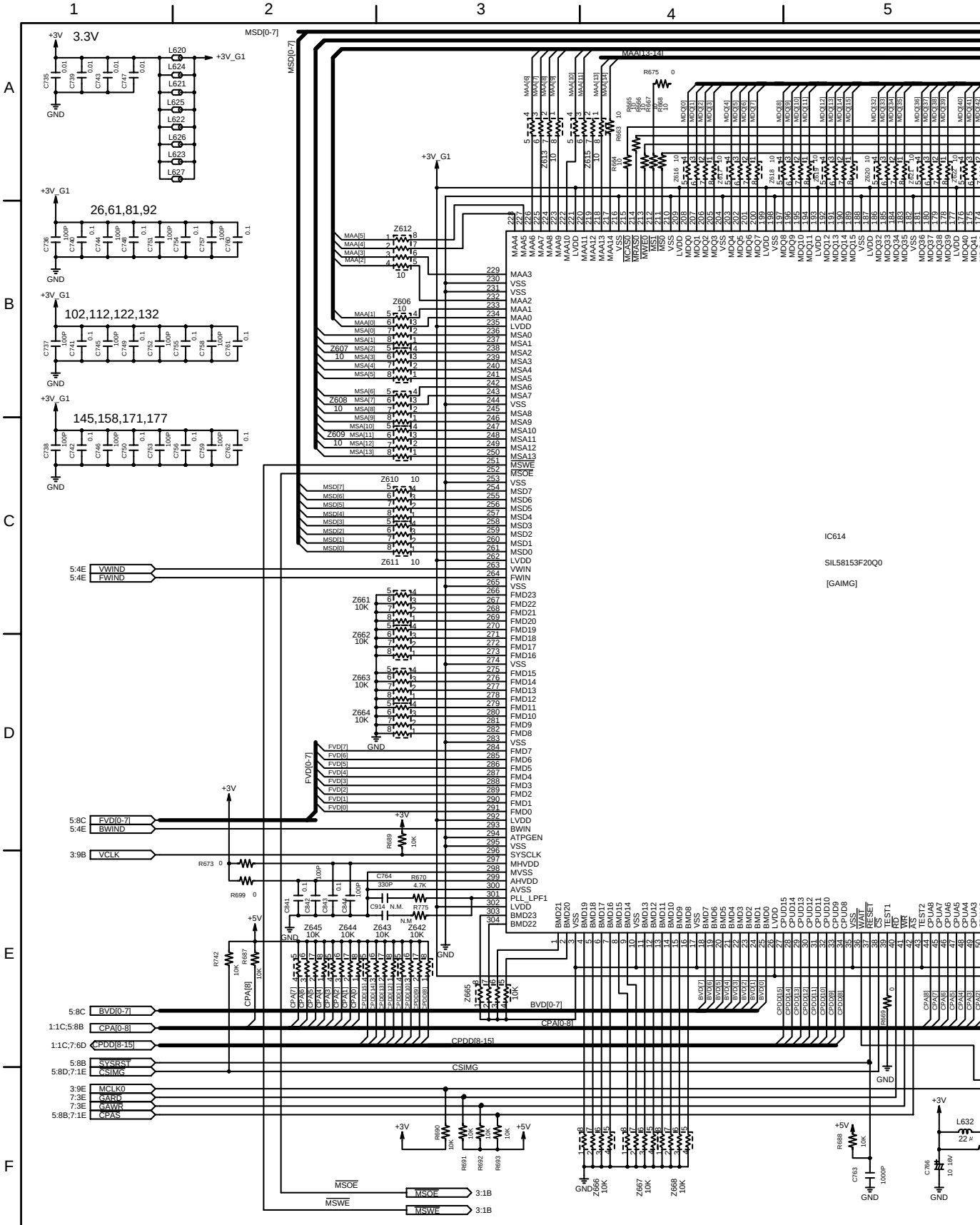
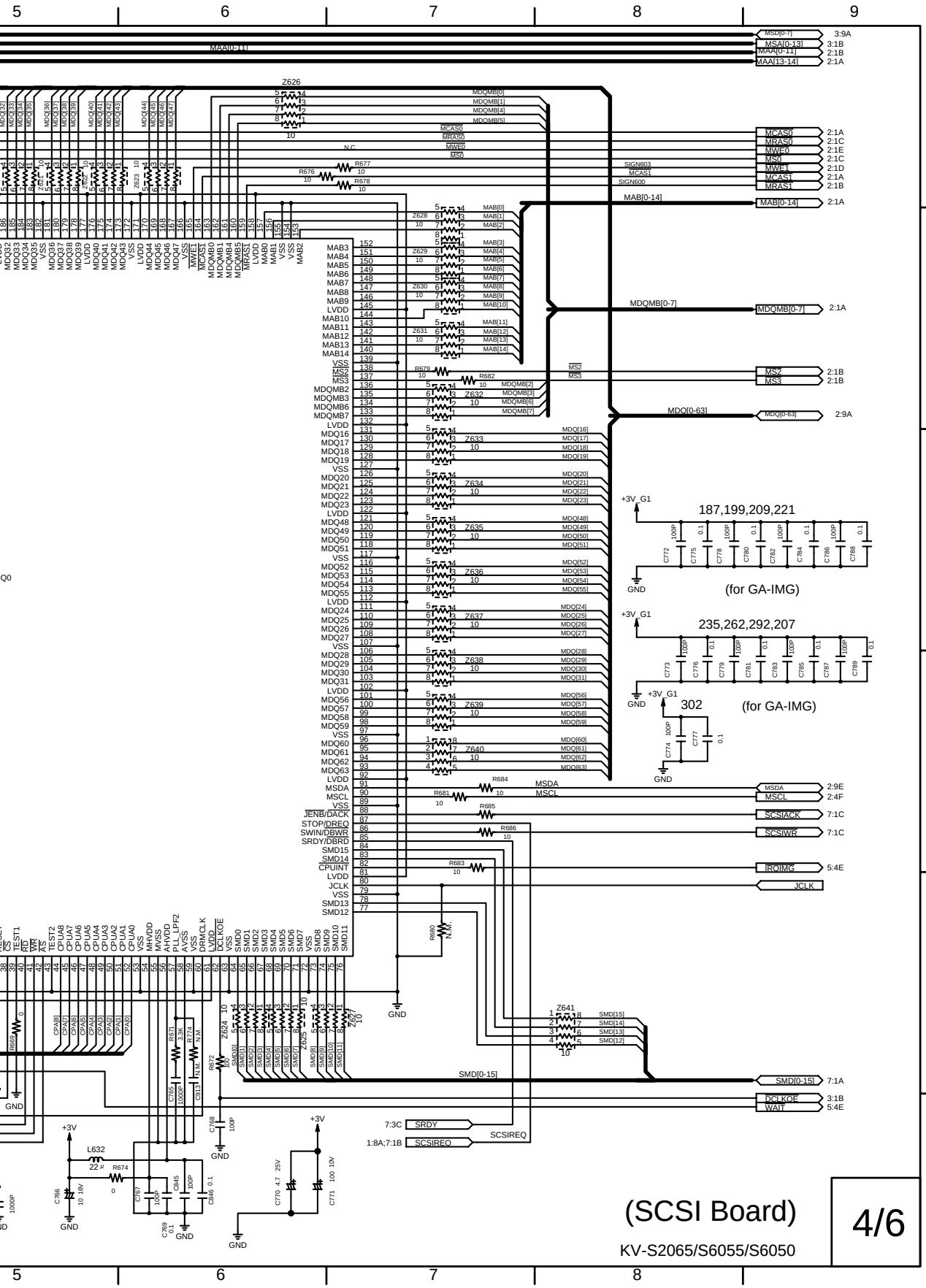

IC614
SIL58153F20Q0
[GAIMG]
MSD[0-7]
MAA[13:4]
3.3V
+3V_G1
26,61,81,92
102,112,122,132
145,158,171,177
VWIND
FWIND
FVD[0-7]
BWIND
VCLK
BVD[0-7]
CPA[0-8]
CPDD[8-15]
SYSRST
CSIMG
MCLK0
GARD
GAWR
CPAS
MSOE
MSWE
BMD[0-23]
FMD[0-23]
CPUD[0-15]
CPUA[0-8]


(SCSI Board)
KV-S2065/S6055/S6050
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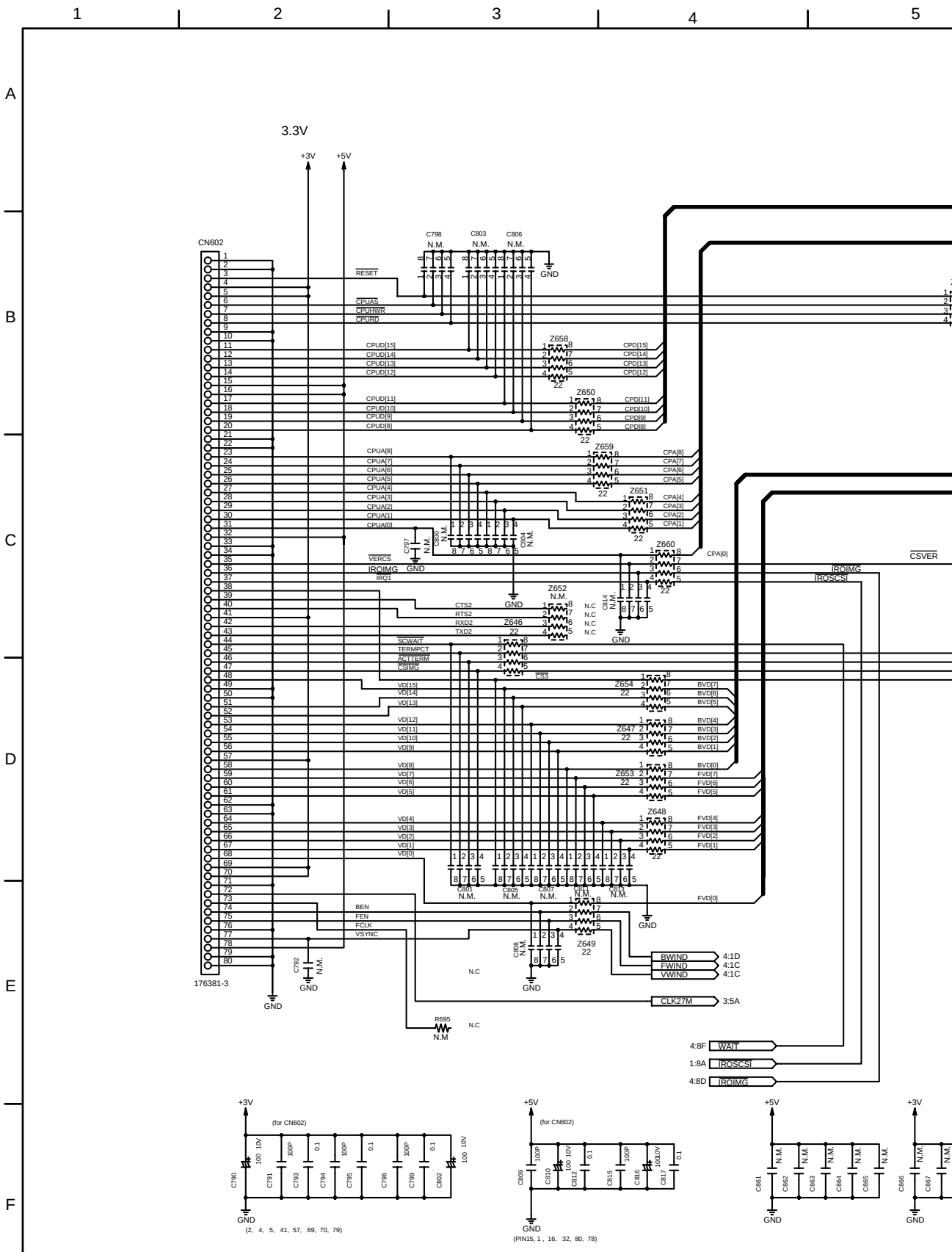
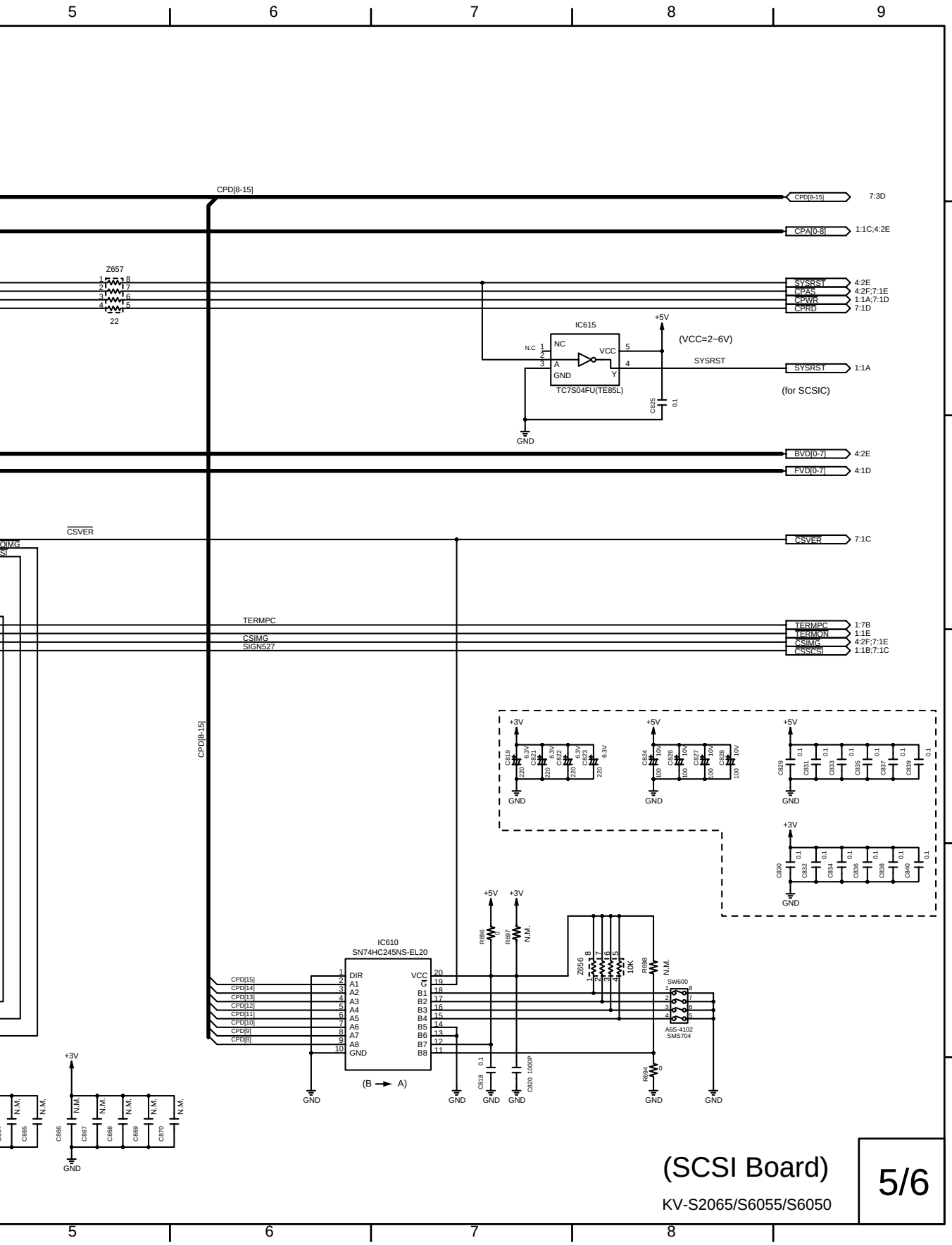
187,199,209,221
(for GA-IMG)
235,262,292,207
(for GA-IMG)
302
MAA[0-11]
MAB[0-14]
MDQMB[0-7]
MDQ[0-63]
SMD[0-15]
SCSIREQ
SRDY
GND
+3V
+3V_G1


3.3V
+3V
+5V
CN602
176381-3
GND
RESET
CPUAS
CPUHWR
CPURD
CPUD[15]
CPUD[14]
CPUD[13]
CPUD[12]
CPUD[11]
CPUD[10]
CPUD[9]
CPUD[8]
CPUA[8]
CPUA[7]
CPUA[6]
CPUA[5]
CPUA[4]
CPUA[3]
CPUA[2]
CPUA[1]
CPUA[0]
VERCS
IRQIMG
IRQ1
CTS2
RTS2
RXD2
TXD2
SCWAIT
TERMPCT
ACTTERM
CSIMG
VD[15]
VD[14]
VD[13]
VD[12]
VD[11]
VD[10]
VD[9]
VD[8]
VD[7]
VD[6]
VD[5]
VD[4]
VD[3]
VD[2]
VD[1]
VD[0]
BEN
FEN
FCLK
VSYNC
Z658
Z650
Z659
Z651
Z660
Z652
Z646
Z654
Z647
Z653
Z648
Z649
BVD[7]
BVD[6]
BVD[5]
BVD[4]
BVD[3]
BVD[2]
BVD[1]
BVD[0]
FVD[7]
FVD[6]
FVD[5]
FVD[4]
FVD[3]
FVD[2]
FVD[1]
FVD[0]
BWIND
FWIND
VWIND
CLK27M
WAIT
IROSCS
IROIMG
CSVER
(for CN602)
(2, 4, 5, 41, 57, 69, 70, 79)
(PIN15, 1 , 16, 32, 80, 78)



(SCSI Board)

KV-S2065/S6055/S6050

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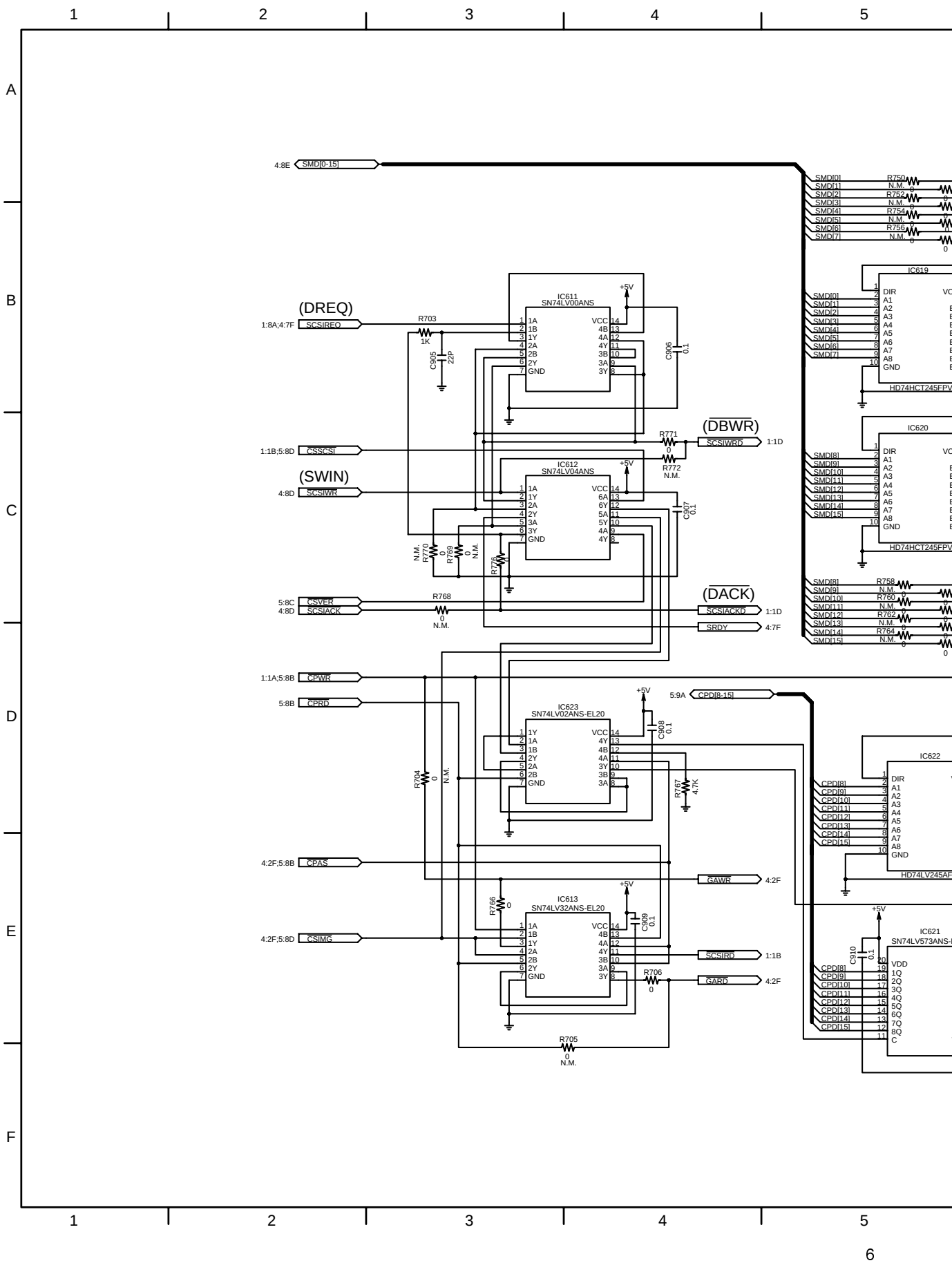
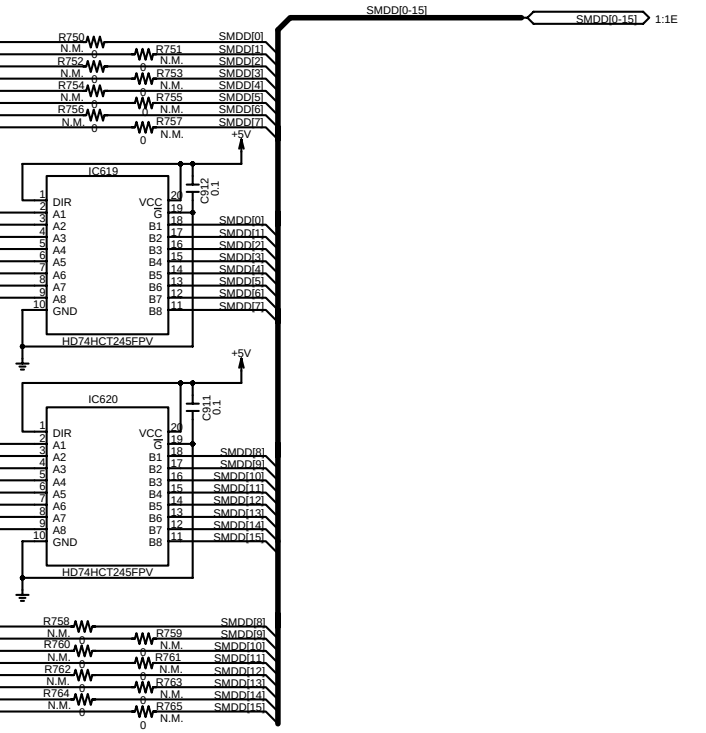
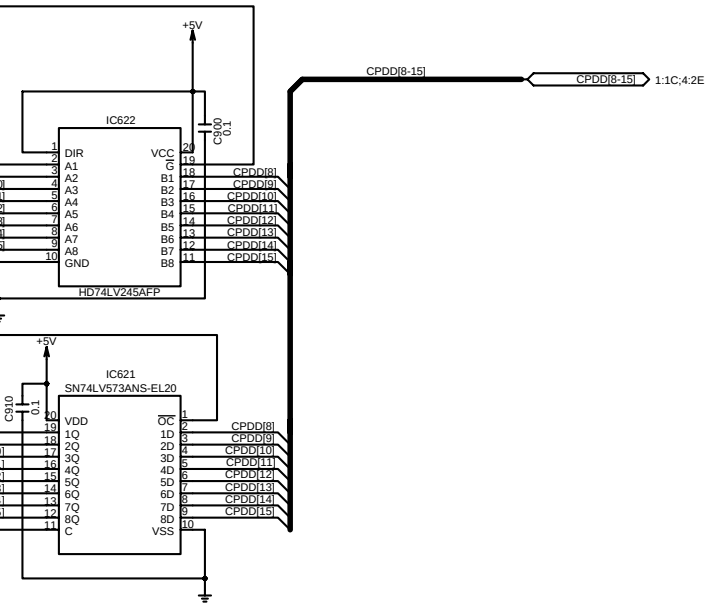

4:8E SMD[0-15]
(DREQ)
1:8A;4:7F SCSIREQ
R703 1K
C905 22P
IC611 SN74LV00ANS
C906 0.1
1:1B;5:8D CSSCS
(DBWR)
R771 0
SCSIWRD 1:1D
R772 N.M.
IC612 SN74LV04ANS
(SWIN)
4:8D SCSIWR
C907 0.1
R770 N.M.
R769 0 N.M.
R776 0
5:8C CSVER
4:8D SCSIACK
R768 0 N.M.
(DACK)
SCSIACKD 1:1D
SRDY 4:7F
1:1A;5:8B CPWR
5:8B CPRD
IC623 SN74LV02ANS-EL20
C908 0.1
R704 0 N.M.
R767 4.7K
5:9A CPD[8-15]
4:2F;5:8B CPAS
GAWR 4:2F
IC613 SN74LV32ANS-EL20
R766 0
C909 0.1
4:2F;5:8D CSIMG
SCSIRD 1:1B
GARD 4:2F
R706 0
R705 0 N.M.
IC619
IC620
IC622
IC621
HD74HCT245FPV
HD74LV245AF
SMD[0] SMD[1] SMD[2] SMD[3] SMD[4] SMD[5] SMD[6] SMD[7]
SMD[8] SMD[9] SMD[10] SMD[11] SMD[12] SMD[13] SMD[14] SMD[15]
CPD[8] CPD[9] CPD[10] CPD[11] CPD[12] CPD[13] CPD[14] CPD[15]
R750 R752 R754 R756 R758 R760 R762 R764
N.M. 0
+5V
C910 0.1





(SCSI Board)

KV-S2065/S6055/S6050

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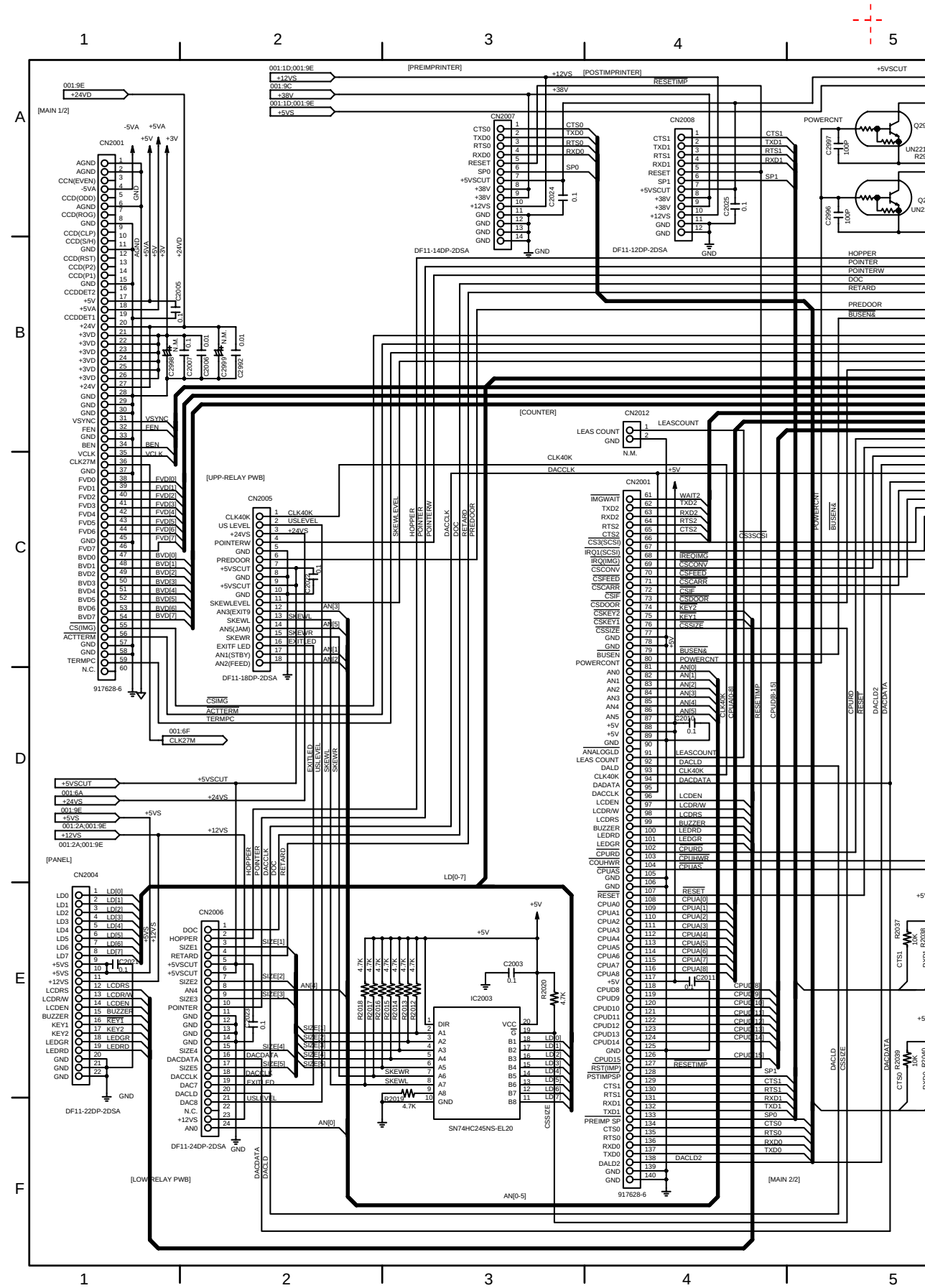
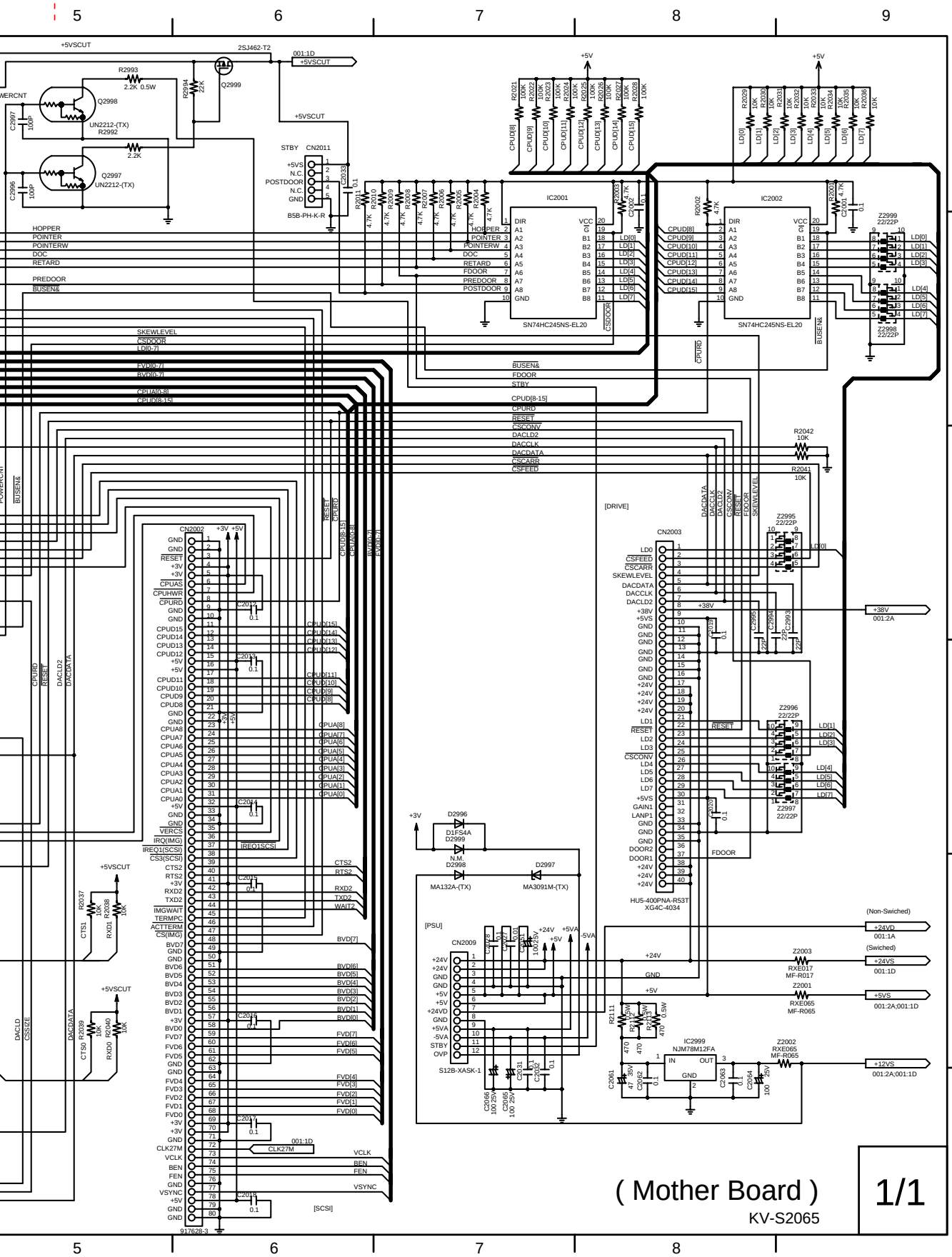
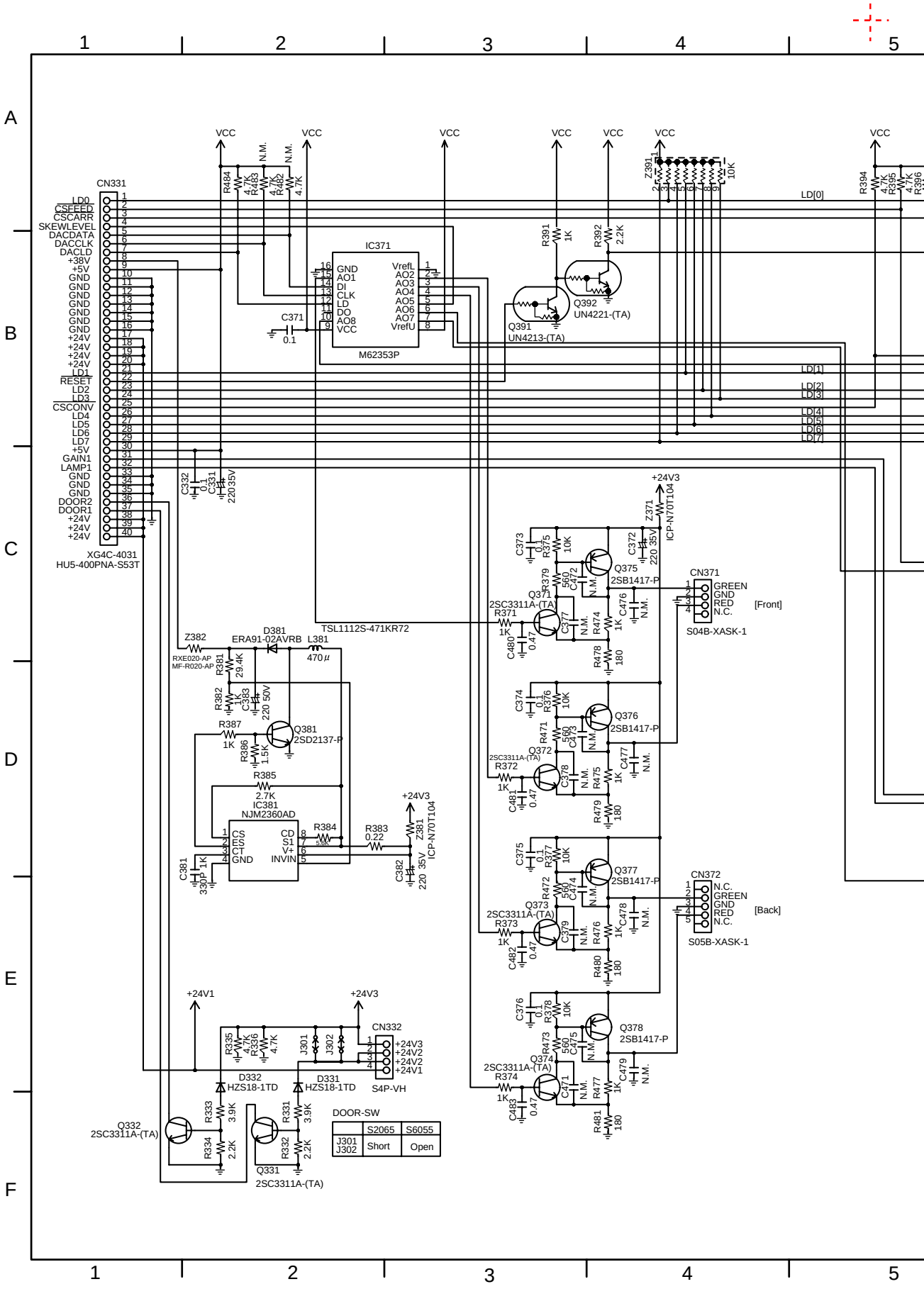
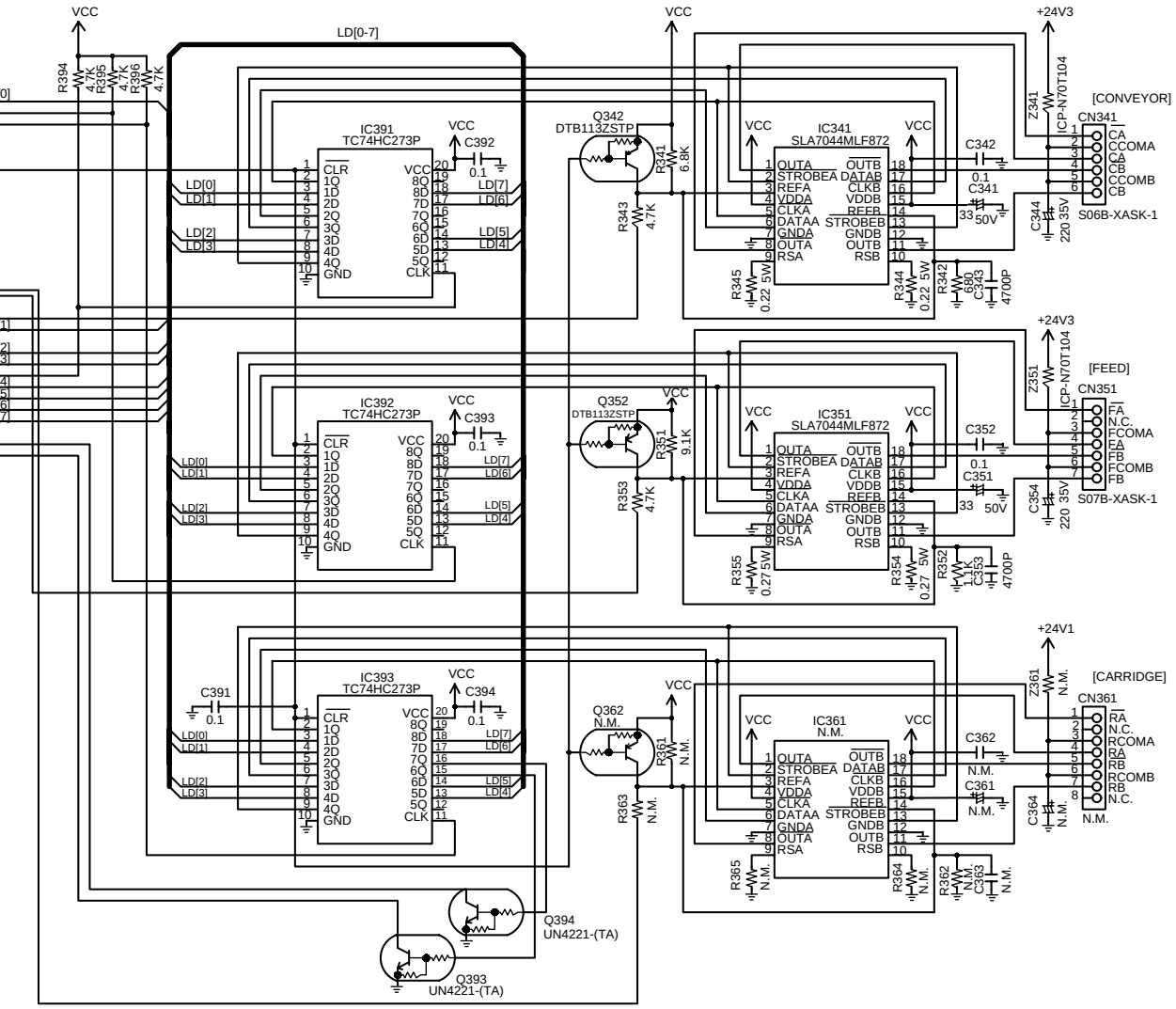
17.3 MOTHER Board


[MAIN 1/2]
CN2001
917628-6
[UPP-RELAY PWB]
CN2005
DF11-18DP-2DSA
[PANEL]
CN2004
DF11-22DP-2DSA
[LOW RELAY PWB]
CN2006
DF11-24DP-2DSA
[PREIMPRINTER]
[POSTIMPRINTER]
CN2007
DF11-14DP-2DSA
CN2008
DF11-12DP-2DSA
[COUNTER]
CN2012
N.M.
IC2003
SN74HC245NS-EL20
[MAIN 2/2]
POWERCNT
HOPPER
POINTER
POINTERW
DOC
RETARD
PREDOOR
BUSEN&
SKEWLEVEL
DACCLK
CLK40K
LEASCOUNT
DACLD
DACDATA
RESETIMP
CPUD[8-15]
CPUA[8-15]
CSSIZE
CS3SCSI
LD[0-7]
AN[0-5]
SIZE[1]
SIZE[2]
SIZE[3]
SIZE[4]
SIZE[5]
SKEWR
SKEWL
EXITLED
USLEVEL
+5V
+12V
+24V
-5V
GND


(Mother Board)
KV-S2065
1/1
IC2001
IC2002
SN74HC245NS-EL20
IC2999
NJM78M12FA
CN2002
CN2003
CN2009
[DRIVE]
[PSU]
[SCSI]
HOPPER
POINTER
POINTERW
DOC
RETARD
PREDOOR
BUSEN&
SKEWLEVEL
CSDOOR
LD[0-7]
FVD[0-7]
RVD[0-7]
CPUA[0-8]
CPUD[0-15]
CPUD[8-15]
CPURD
RESET
CSCONV
DACLD2
DACCLK
DACDATA
CSCARR
CSFEED
STBY
FDOOR
VCLK
BEN
FEN
VSYNC
CLK27M
CTS2
RTS2
RXD2
TXD2
WAIT2
IMGWAIT
TERMPC
ACTTERM
CS(IMG)
IREQ1SCSI
CS3(SCSI)
IRQ(IMG)
VERCS
CTS1
RXD1
CTS0
RXD0
DACLD
CSSIZE
DACDATA
+5VSCUT
2SJ462-T2
Q2998
Q2999
Q2997
UN2212-(TX)
STBY
CN2011
+5VS
N.C.
POSTDOOR
GND
B5B-PH-K-R
D2996
D1FS4A
N.M.
D2998
MA132A-(TX)
D2997
MA3091M-(TX)
HU5-400PNA-R53T
XG4C-4034
S12B-XASK-1
Z2995
Z2996
Z2997
Z2998
Z2999
22/22P
Z2003
RXE017
MF-R017
Z2001
RXE065
MF-R065
Z2002
RXE065
MF-R065
(Non-Swiched)
(Swiched)
+24VD
001:1A
+24VS
001:1D
+5VS
001:2A;001:1D
+12VS
001:2A;001:1D
+38V
001:2A
001:1D
917628-3

17.4 DRIVE Board


CN331
XG4C-4031
HU5-400PNA-S53T
IC371
M62353P
IC381
NJM2360AD
TSL1112S-471KR72
ERA91-02AVRB
CN371
S04B-XASK-1
CN372
S05B-XASK-1
CN332
S4P-VH
[Front]
[Back]
Q331
2SC3311A-(TA)
Q332
2SC3311A-(TA)
Q371
2SC3311A-(TA)
Q372
2SC3311A-(TA)
Q373
2SC3311A-(TA)
Q374
2SC3311A-(TA)
Q375
2SB1417-P
Q376
2SB1417-P
Q377
2SB1417-P
Q378
2SB1417-P
Q381
2SD2137-P
Q391
UN4213-(TA)
Q392
UN4221-(TA)
DOOR-SW
S2065
S6055
J301 J302
Short
Open
LD[0]
LD[1]
LD[2]
LD[3]
LD[4]
LD[5]
LD[6]
LD[7]
VCC
+24V3
+24V1
+24V2



(Drive Board)

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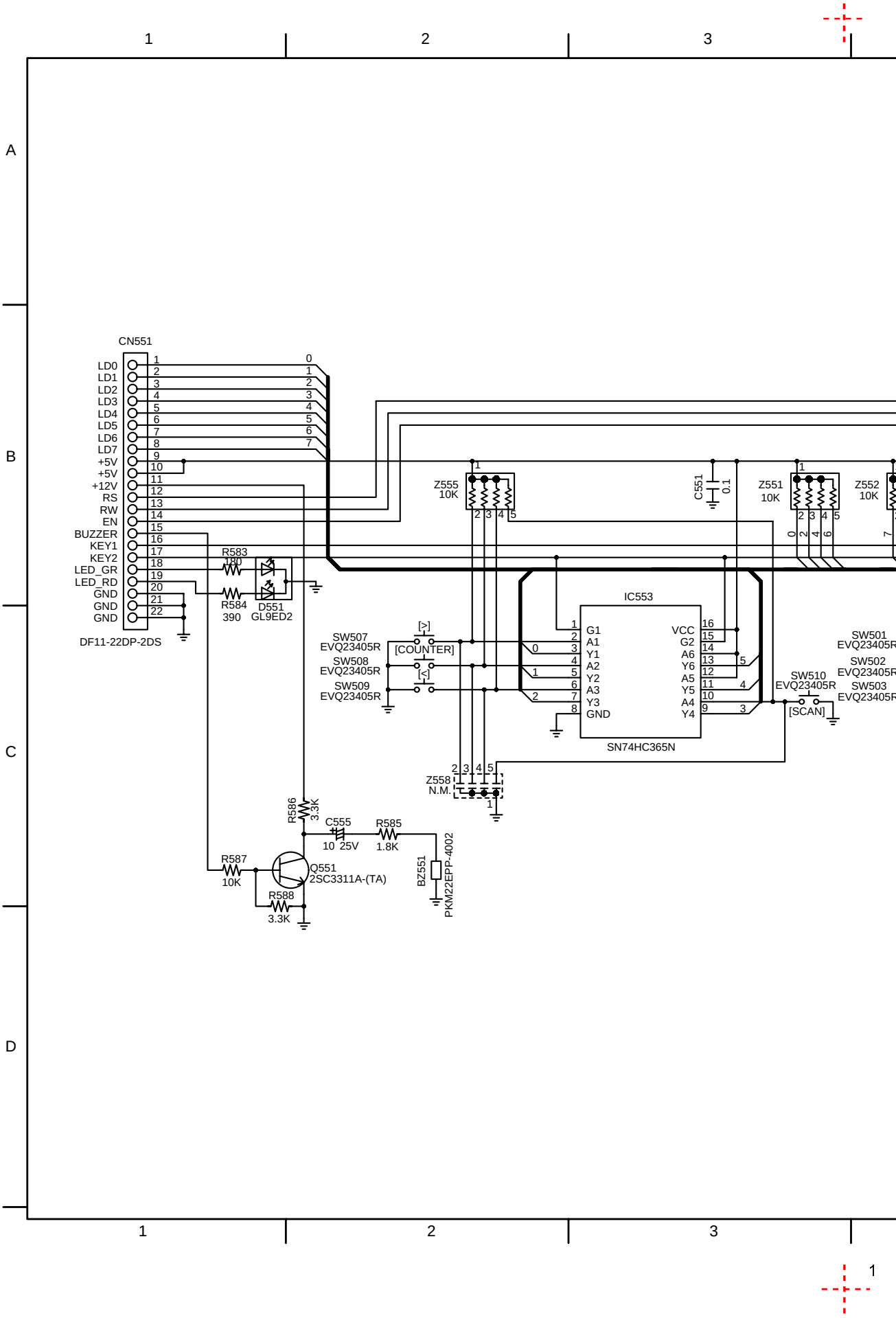
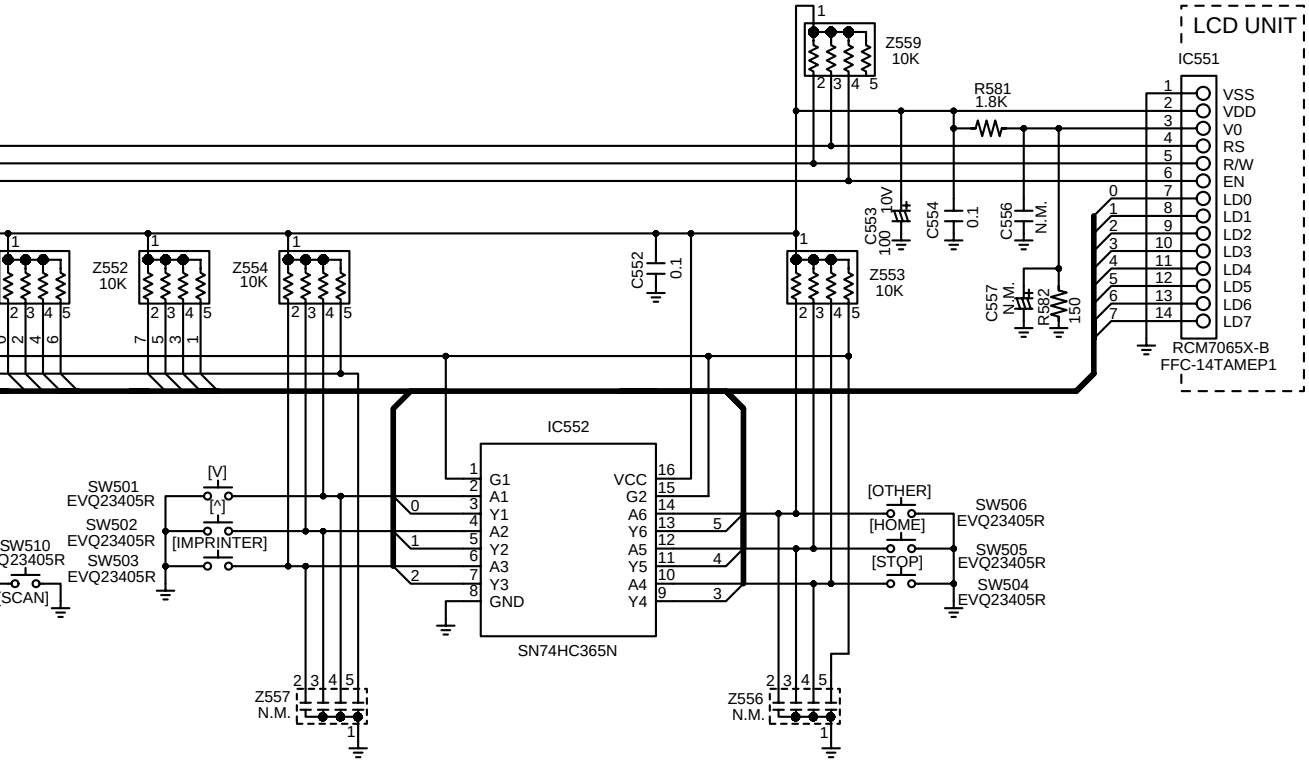
17.5 PANEL Board


CN551
LD0
LD1
LD2
LD3
LD4
LD5
LD6
LD7
+5V
+5V
+12V
RS
RW
EN
BUZZER
KEY1
KEY2
LED_GR
LED_RD
GND
GND
GND
DF11-22DP-2DS
R583
180
R584
390
D551
GL9ED2
Z555
10K
C551
0.1
Z551
10K
Z552
10K
IC553
SN74HC365N
SW507
EVQ23405R
[COUNTER]
SW508
EVQ23405R
SW509
EVQ23405R
SW510
EVQ23405R
[SCAN]
SW501
EVQ23405R
SW502
EVQ23405R
SW503
EVQ23405R
Z558
N.M.
R586
3.3K
C555
10 25V
R585
1.8K
R587
10K
Q551
2SC3311A-(TA)
R588
3.3K
BZ551
PKM22EPP-4002

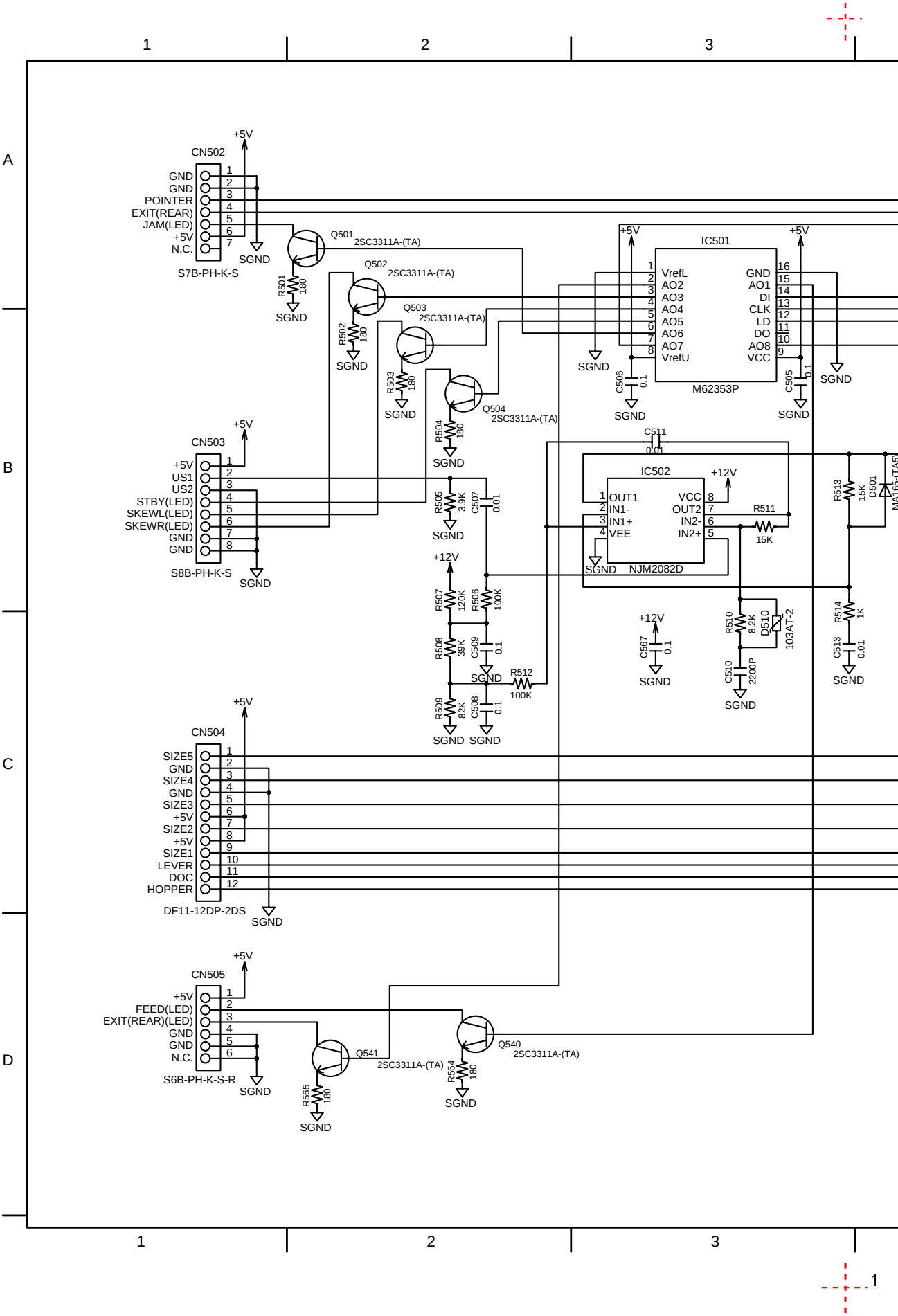


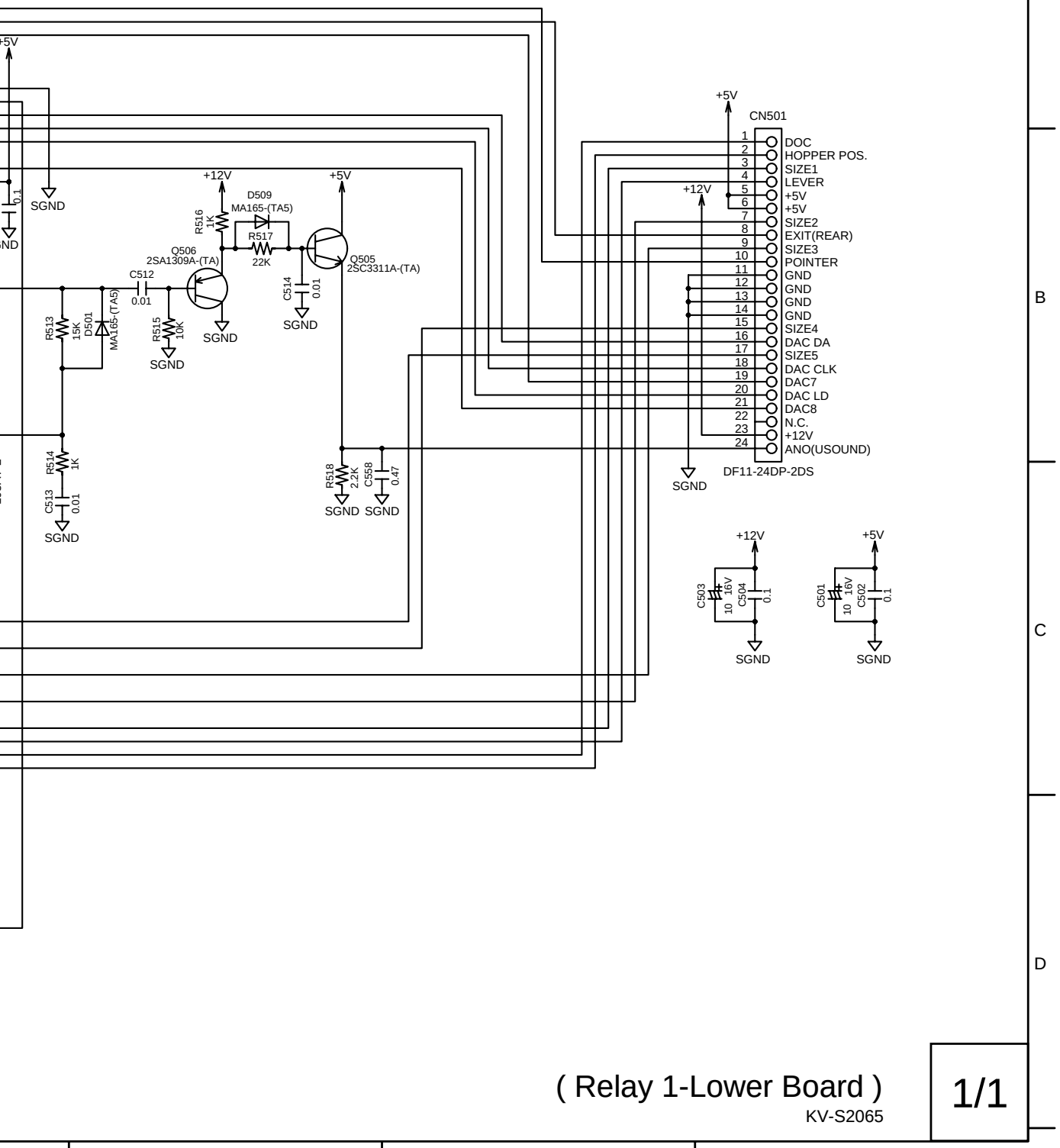
(Panel Board)

KV-S2065

1/1

17.6 RELAY LOWER and UPPER Boards


1
2
3
A
B
C
D
CN502
GND
GND
POINTER
EXIT(REAR)
JAM(LED)
+5V
N.C.
S7B-PH-K-S
+5V
SGND
Q501 2SC3311A-(TA)
Q502 2SC3311A-(TA)
Q503 2SC3311A-(TA)
Q504 2SC3311A-(TA)
R501 180
R502 180
R503 180
R504 180
IC501
VrefL
AO2
AO3
AO4
AO5
AO6
AO7
VrefU
GND
AO1
DI
CLK
LD
DO
AO8
VCC
M62353P
C506 0.1
C505 0.1
C511 0.01
CN503
+5V
US1
US2
STBY(LED)
SKEWL(LED)
SKEWR(LED)
GND
GND
S8B-PH-K-S
R505 3.9K
C507 0.01
IC502
OUT1
IN1-
IN1+
VEE
VCC
OUT2
IN2-
IN2+
NJM2082D
+12V
R511 15K
R513 15K
D501 MA165-(TA)
R507 120K
R506 100K
R508 39K
C509 0.1
R512 100K
R509 82K
C508 0.1
C567 0.1
R510 8.2K
D510 103AT-2
C510 2200P
R514 1K
C513 0.01
CN504
SIZE5
GND
SIZE4
GND
SIZE3
+5V
SIZE2
+5V
SIZE1
LEVER
DOC
HOPPER
DF11-12DP-2DS
CN505
+5V
FEED(LED)
EXIT(REAR)(LED)
GND
GND
N.C.
S6B-PH-K-S-R
Q541 2SC3311A-(TA)
Q540 2SC3311A-(TA)
R565 180
R564 180
1



(Relay 1-Lower Board)

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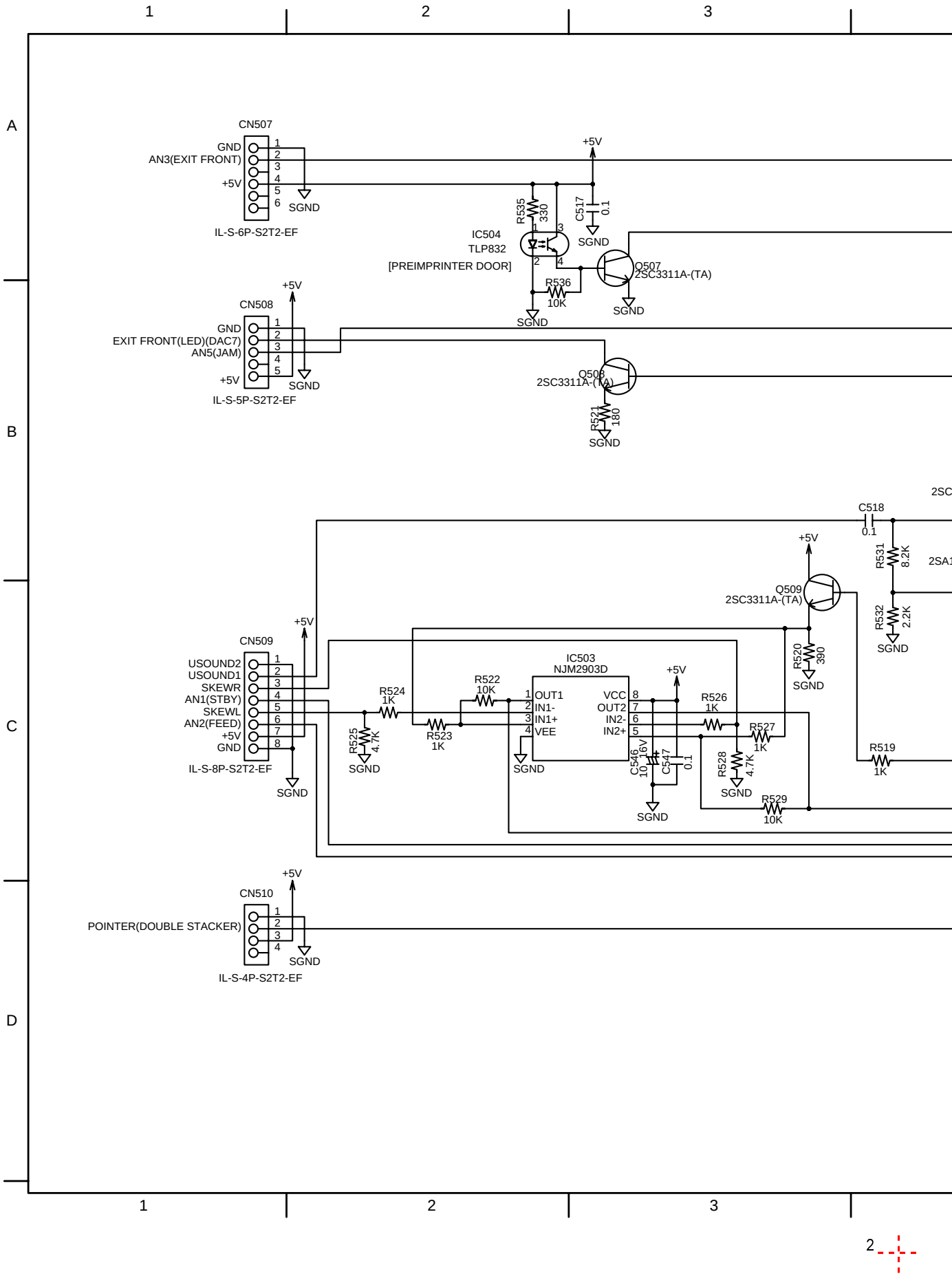
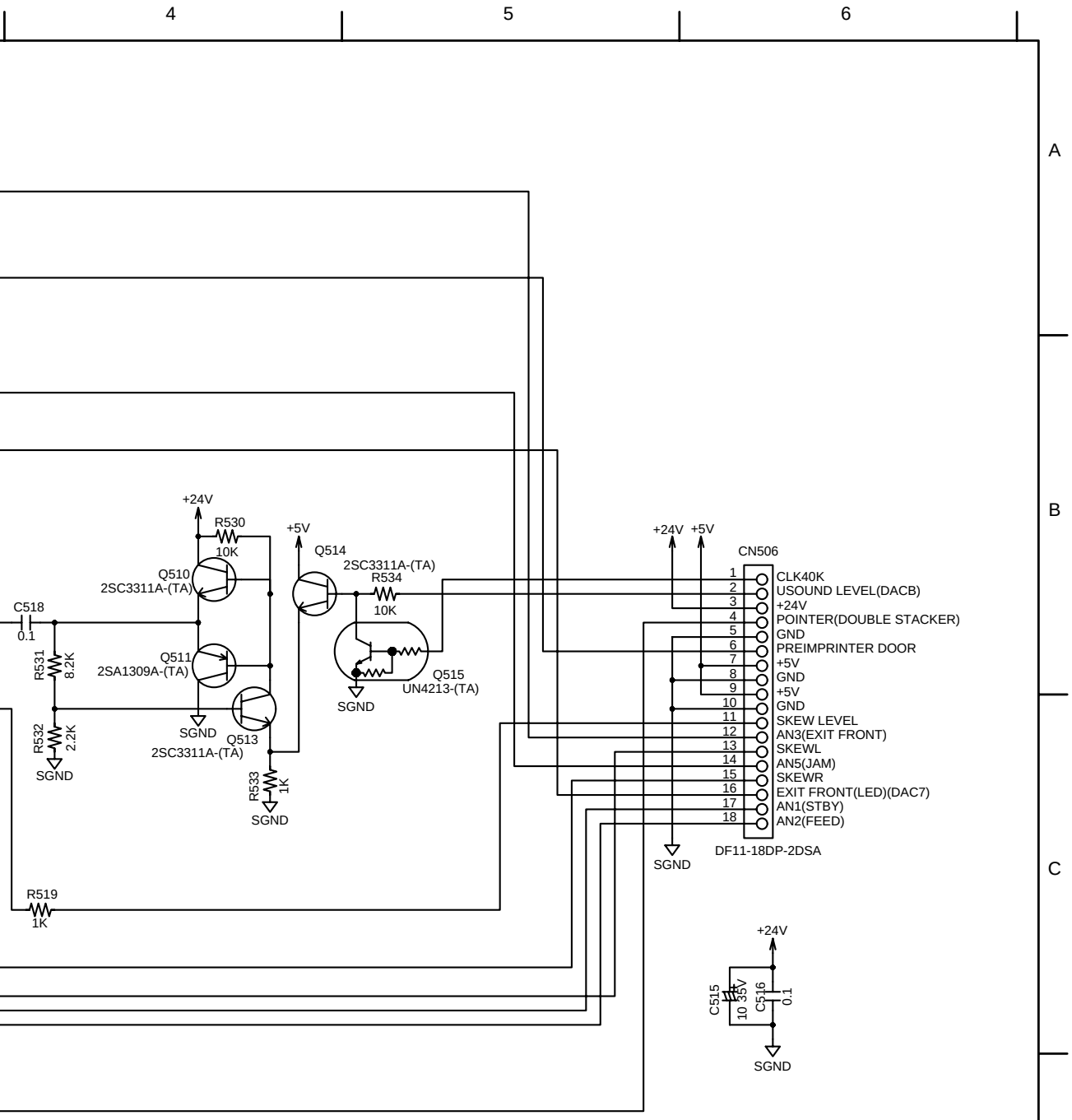

CN507
GND
AN3(EXIT FRONT)
+5V
SGND
IL-S-6P-S2T2-EF
+5V
R535
330
C517
0.1
SGND
IC504
TLP832
[PREIMPRINTER DOOR]
Q507
2SC3311A-(TA)
R536
10K
SGND
SGND
CN508
GND
EXIT FRONT(LED)(DAC7)
AN5(JAM)
+5V
SGND
IL-S-5P-S2T2-EF
+5V
Q508
2SC3311A-(TA)
R521
180
SGND
C518
0.1
+5V
R531
8.2K
Q509
2SC3311A-(TA)
R532
2.2K
SGND
R520
390
SGND
CN509
USOUND2
USOUND1
SKEWR
AN1(STBY)
SKEWL
AN2(FEED)
+5V
GND
IL-S-8P-S2T2-EF
SGND
+5V
R524
1K
R525
4.7K
SGND
R523
1K
R522
10K
IC503
NJM2903D
OUT1
IN1-
IN1+
VEE
VCC
OUT2
IN2-
IN2+
SGND
+5V
R526
1K
R527
1K
C546
10
16V
C547
0.1
R528
4.7K
SGND
SGND
R529
10K
R519
1K
CN510
POINTER(DOUBLE STACKER)
+5V
SGND
IL-S-4P-S2T2-EF



(Relay 2-Upper Board)

KV-S2065

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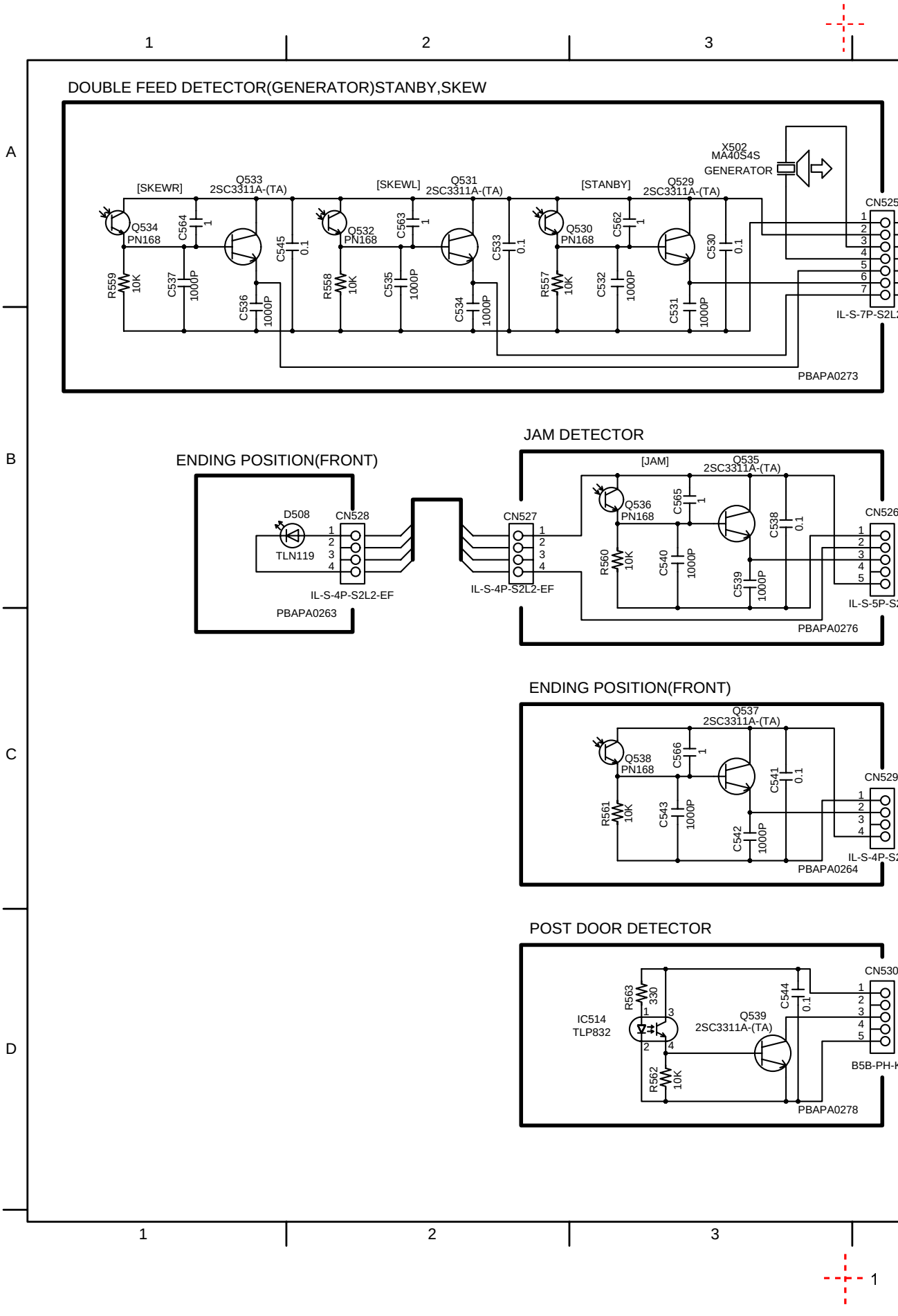
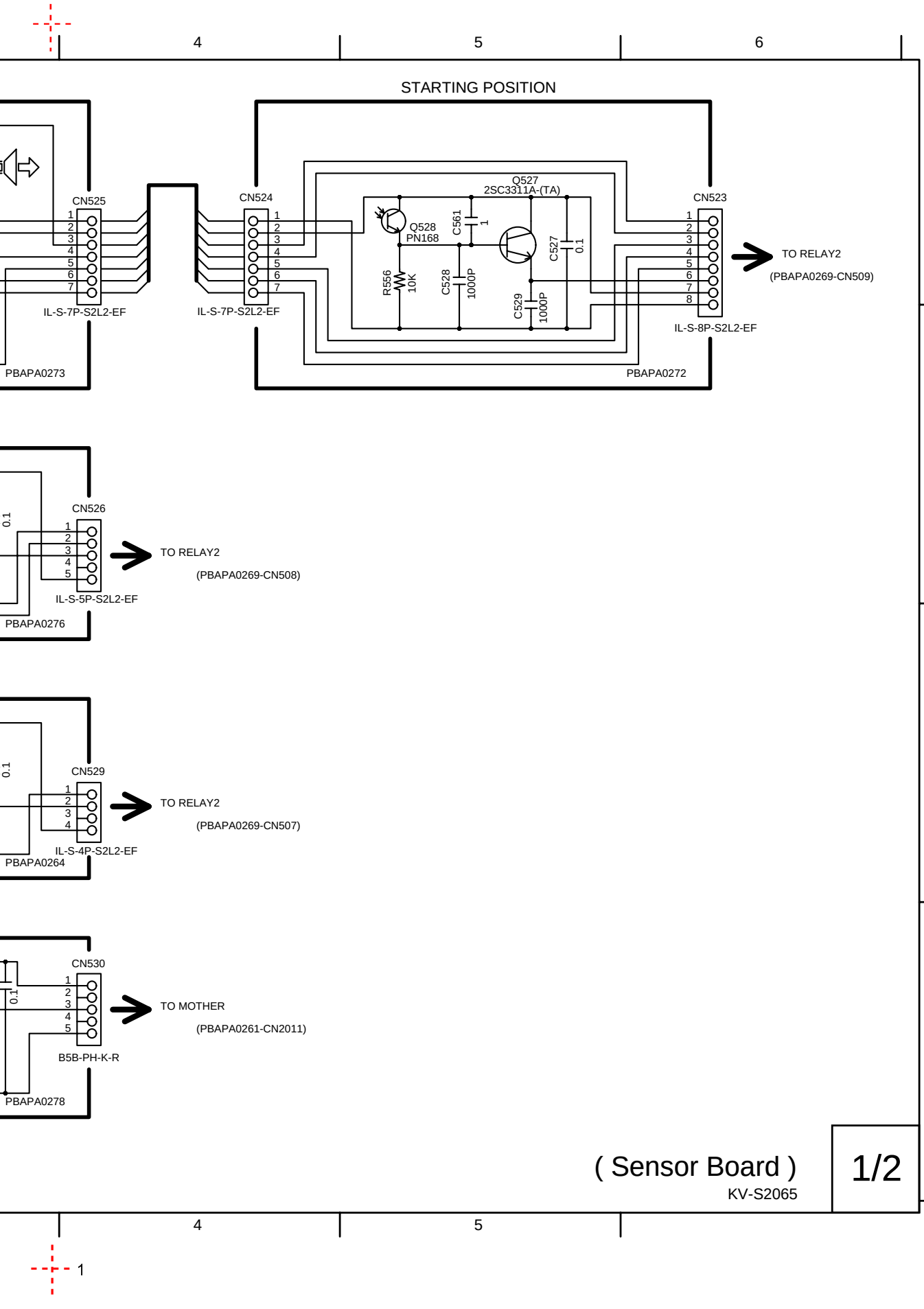
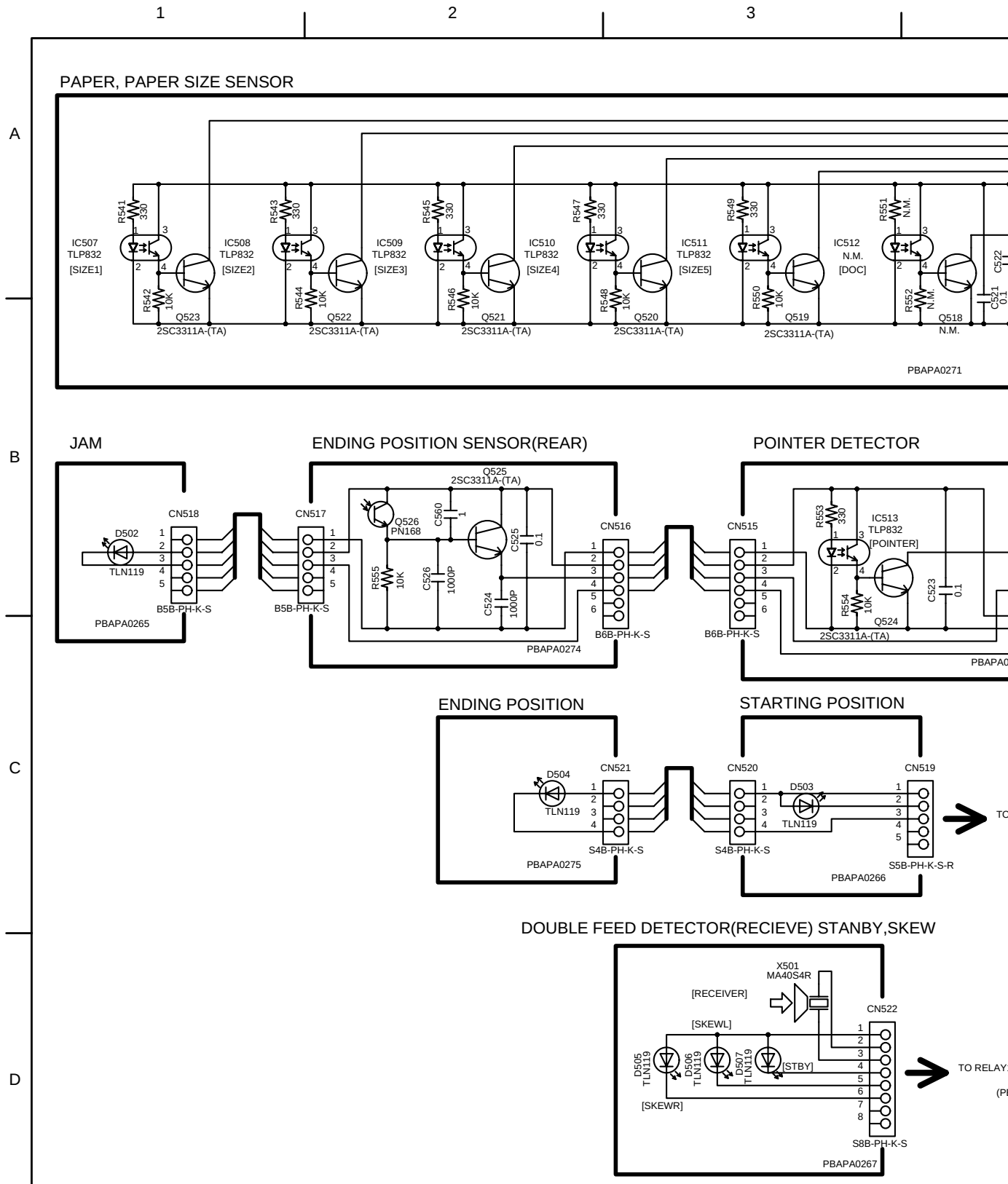
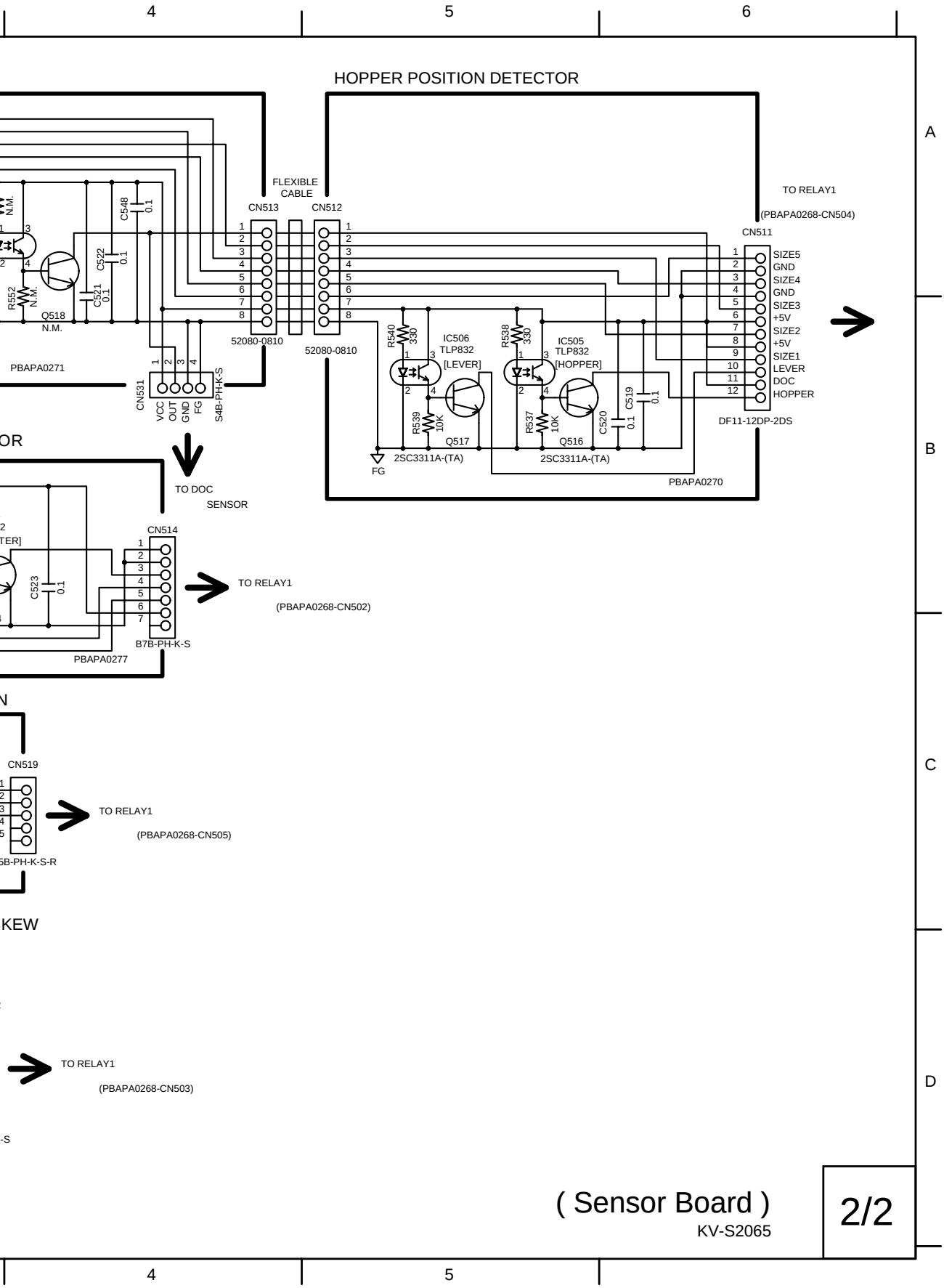
17.7 SENSOR Boards


DOUBLE FEED DETECTOR(GENERATOR)STANBY,SKEW
[SKEWR]
Q533
2SC3311A-(TA)
[SKEWL]
Q531
2SC3311A-(TA)
[STANBY]
Q529
2SC3311A-(TA)
X502
MA40S4S
GENERATOR
Q534
PN168
Q532
PN168
Q530
PN168
C564
C563
C562
C545
C533
C530
R559
10K
C537
1000P
C536
1000P
R558
10K
C535
1000P
C534
1000P
R557
10K
C532
1000P
C531
1000P
CN525
IL-S-7P-S2L2
PBAPA0273
ENDING POSITION(FRONT)
D508
TLN119
CN528
IL-S-4P-S2L2-EF
PBAPA0263
CN527
IL-S-4P-S2L2-EF
JAM DETECTOR
[JAM]
Q535
2SC3311A-(TA)
Q536
PN168
C565
C538
R560
10K
C540
1000P
C539
1000P
CN526
IL-S-5P-S2
PBAPA0276
ENDING POSITION(FRONT)
Q537
2SC3311A-(TA)
Q538
PN168
C566
C541
R561
10K
C543
1000P
C542
1000P
CN529
IL-S-4P-S2
PBAPA0264
POST DOOR DETECTOR
IC514
TLP832
R563
330
Q539
2SC3311A-(TA)
C544
R562
10K
CN530
B5B-PH-K
PBAPA0278


4
5
6
STARTING POSITION
A
B
C
D
CN525
CN524
CN523
Q527
2SC3311A-(TA)
Q528
PN168
C561
1
C527
0.1
R556
10K
C528
1000P
C529
1000P
IL-S-7P-S2L2-EF
IL-S-7P-S2L2-EF
IL-S-8P-S2L2-EF
PBAPA0273
PBAPA0272
TO RELAY2
(PBAPA0269-CN509)
CN526
IL-S-5P-S2L2-EF
PBAPA0276
TO RELAY2
(PBAPA0269-CN508)
CN529
IL-S-4P-S2L2-EF
PBAPA0264
TO RELAY2
(PBAPA0269-CN507)
CN530
B5B-PH-K-R
PBAPA0278
TO MOTHER
(PBAPA0261-CN2011)
(Sensor Board)
KV-S2065
1/2
4
5
1


PAPER, PAPER SIZE SENSOR
IC507 TLP832 [SIZE1]
IC508 TLP832 [SIZE2]
IC509 TLP832 [SIZE3]
IC510 TLP832 [SIZE4]
IC511 TLP832 [SIZE5]
IC512 N.M. [DOC]
R541 330
R542 10K
R543 330
R544 10K
R545 330
R546 10K
R547 330
R548 10K
R549 330
R550 10K
R551 N.M.
R552 N.M.
C521 0.1
C522
Q523 2SC3311A-(TA)
Q522 2SC3311A-(TA)
Q521 2SC3311A-(TA)
Q520 2SC3311A-(TA)
Q519 2SC3311A-(TA)
Q518 N.M.
PBAPA0271
JAM
ENDING POSITION SENSOR(REAR)
POINTER DETECTOR
CN518
CN517
CN516
CN515
D502 TLN119
B5B-PH-K-S
B6B-PH-K-S
PBAPA0265
Q525 2SC3311A-(TA)
Q526 PN168
C560 1
C525 0.1
C524 1000P
C526 1000P
R555 10K
PBAPA0274
R553 330
IC513 TLP832 [POINTER]
R554 10K
C523 0.1
Q524 2SC3311A-(TA)
ENDING POSITION
STARTING POSITION
CN521
CN520
CN519
D504 TLN119
D503 TLN119
S4B-PH-K-S
S5B-PH-K-S-R
PBAPA0275
PBAPA0266
DOUBLE FEED DETECTOR(RECIEVE) STANBY,SKEW
X501 MA40S4R
[RECEIVER]
[SKEWL]
[SKEWR]
[STBY]
D505 TLN119
D506 TLN119
D507 TLN119
CN522
S8B-PH-K-S
PBAPA0267
TO RELAY



(Sensor Board)

KV-S2065

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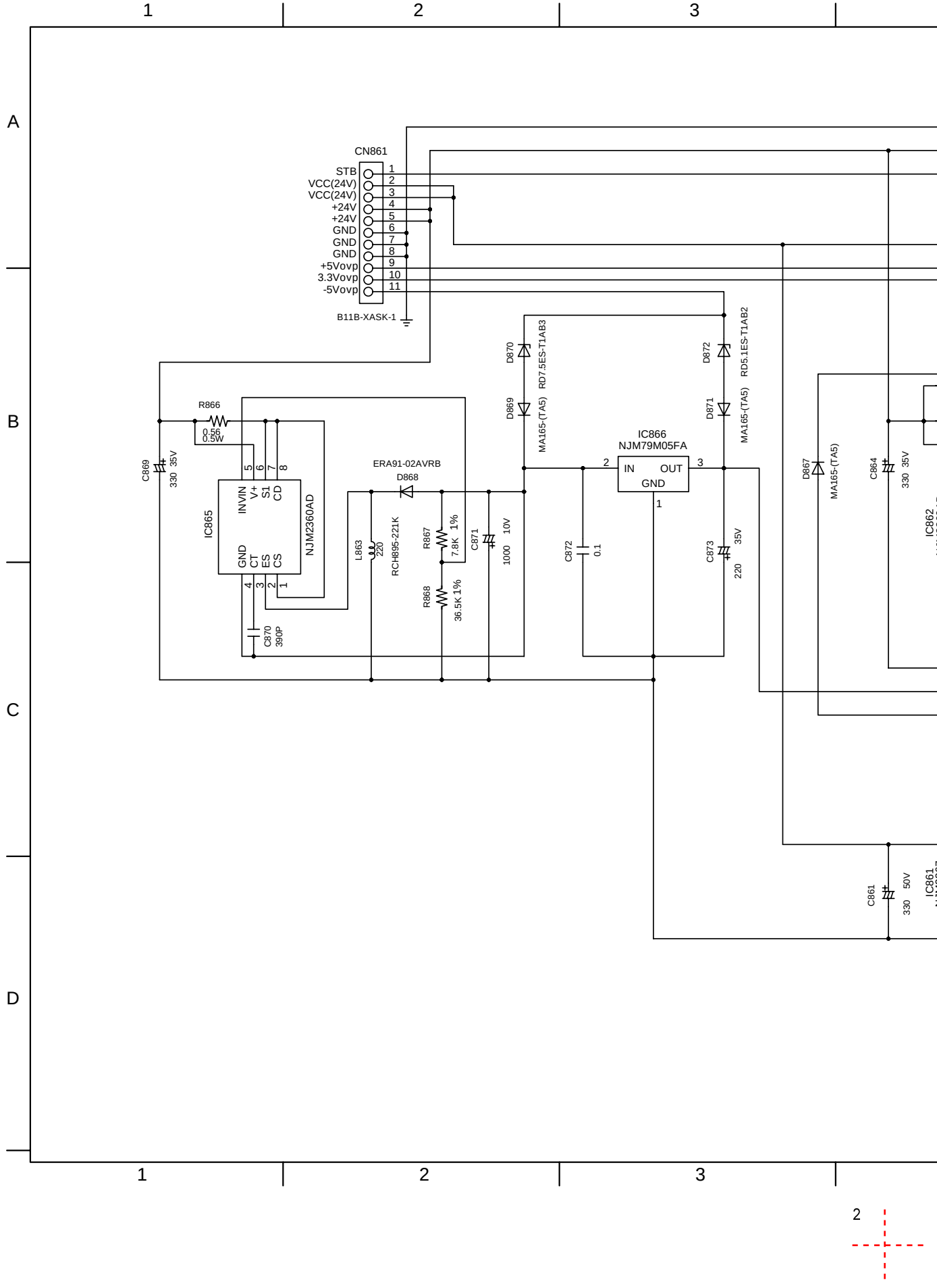
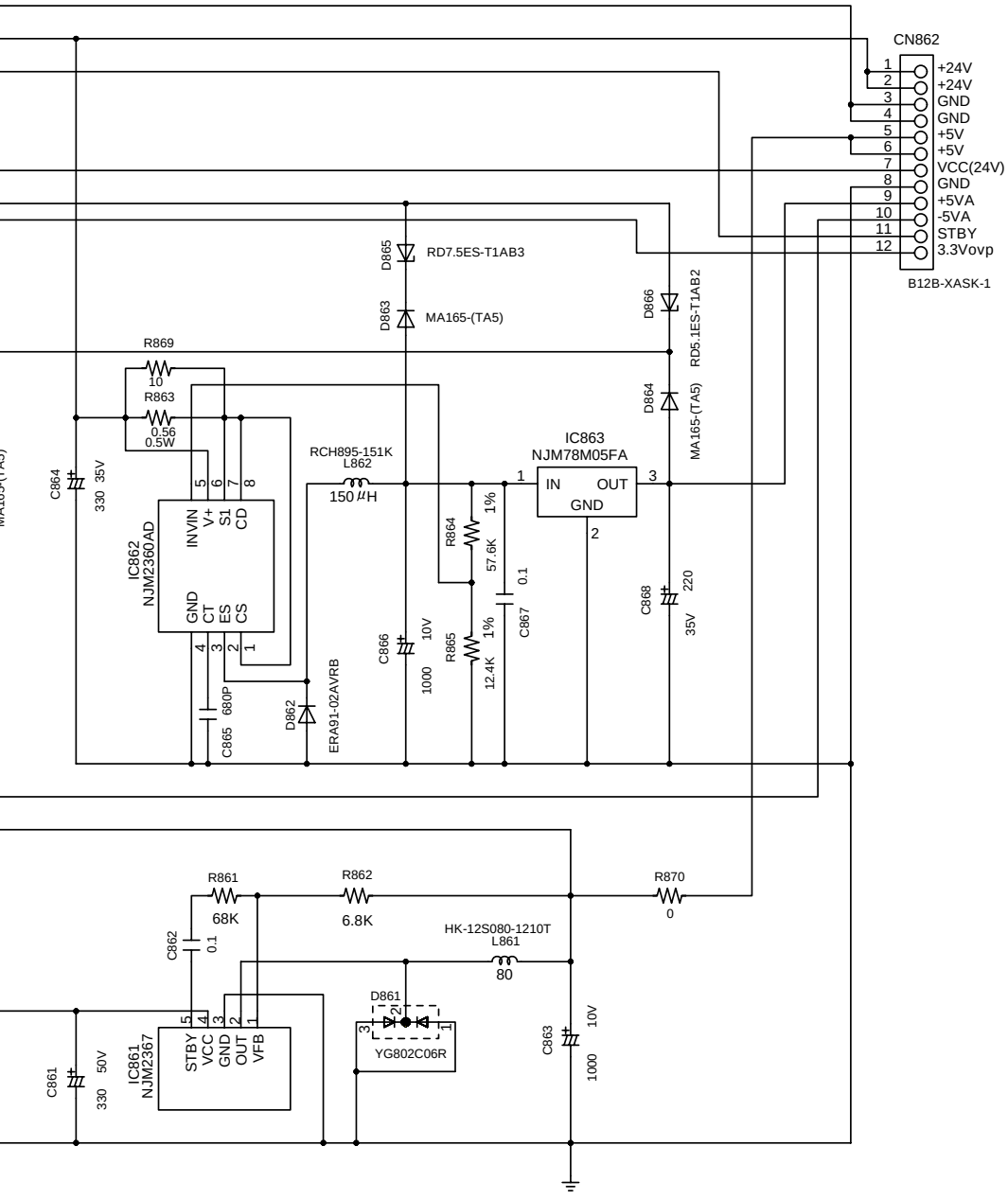
17.8 DC-DC CONVERTER and POWER Boards

TOP PREVIOUS

TOP PREVIOUS


CN861
STB
VCC(24V)
VCC(24V)
+24V
+24V
GND
GND
GND
+5Vovp
3.3Vovp
-5Vovp
B11B-XASK-1
R866
0.56
0.5W
C869
330 35V
IC865
INVIN
V+
S1
CD
GND
CT
ES
CS
NJM2360AD
C870
390P
ERA91-02AVRB
D868
L863
220
RCH895-221K
R867
7.8K 1%
R868
36.5K 1%
C871
1000 10V
D870
RD7.5ES-T1AB3
D869
MA165-(TA5)
D872
RD5.1ES-T1AB2
D871
MA165-(TA5)
IC866
NJM79M05FA
IN
OUT
GND
C872
0.1
C873
220 35V
D867
MA165-(TA5)
C864
330 35V
IC862
C861
330 50V
IC861



(DC-DC Converter Board)

KV-S2065/S6055/S6050

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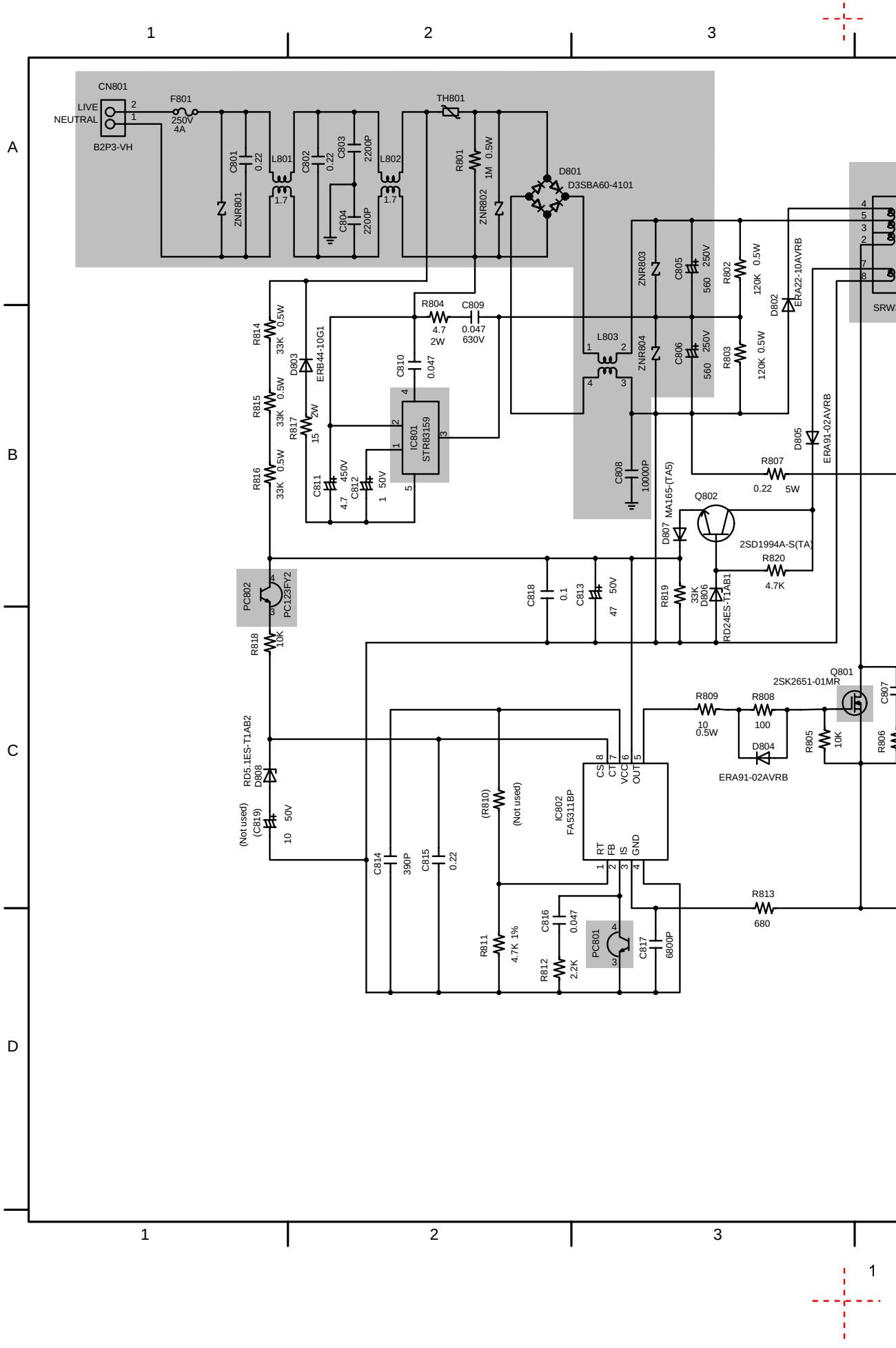
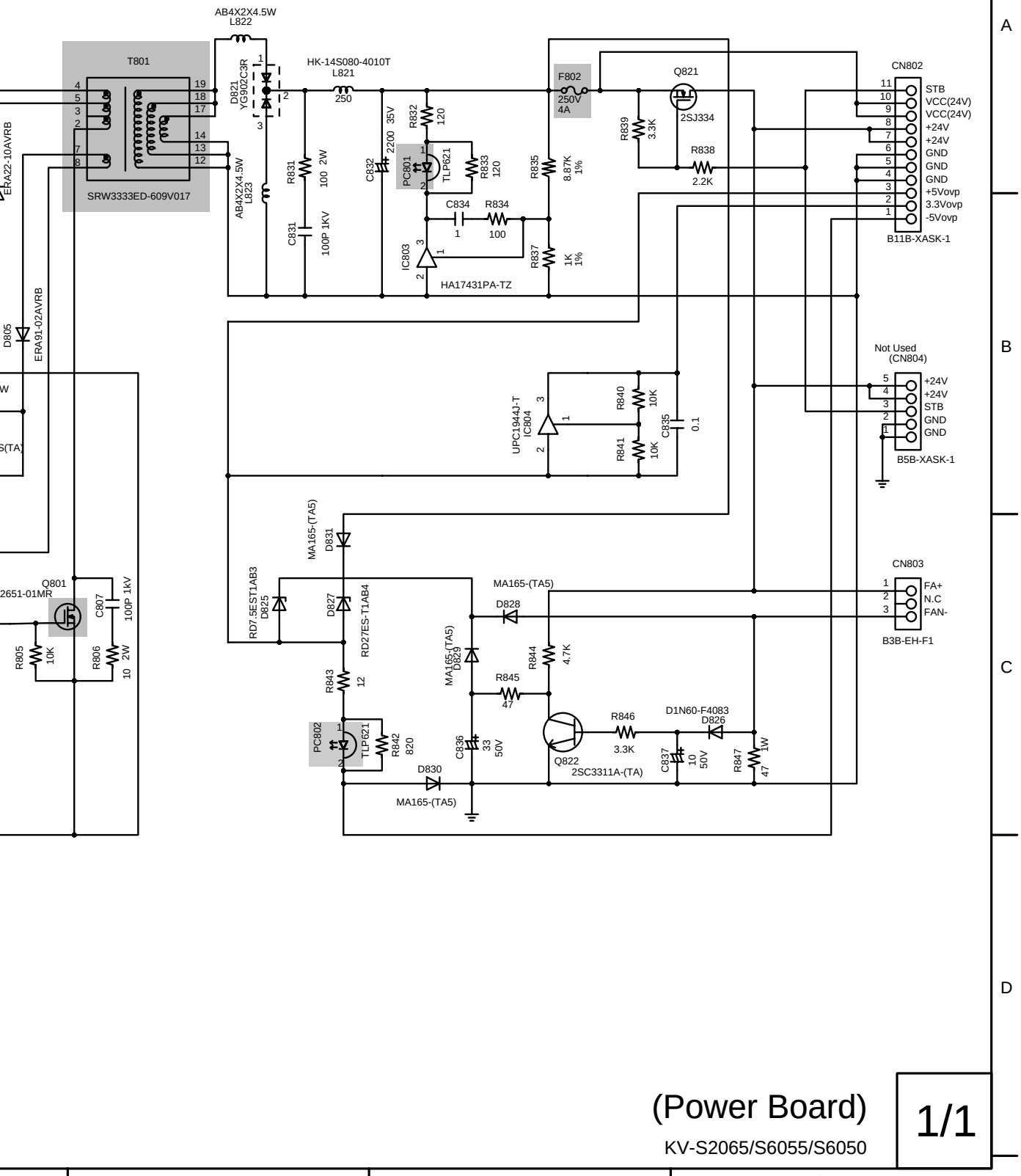

CN801
LIVE
NEUTRAL
B2P3-VH
F801
250V
4A
TH801
D801
D3SBA60-4101
C801 0.22
C802 0.22
C803 2200P
C804 2200P
L801 1.7
L802 1.7
ZNR801
ZNR802
R801 1M 0.5W
ZNR803
ZNR804
L803
C805 560 250V
C806 560 250V
R802 120K 0.5W
R803 120K 0.5W
D802 ERA22-10AVRB
R804 4.7 2W
C809 0.047 630V
R814 33K 0.5W
R815 33K 0.5W
R816 33K 0.5W
D803 ERB44-10G1
R817 15 2W
C810 0.047
IC801 STR83159
C811 4.7 450V
C812 1 50V
C808 10000P
D805 ERA91-02AVRB
R807 0.22 5W
Q802
D807 MA165-(TA5)
2SD1994A-S(TA)
R820 4.7K
D806 RD24ES-T1AB1
R819 33K
C818 0.1
C813 47 50V
PC802 PC123FY2
R818 10K
Q801
2SK2651-01MR
R809 10 0.5W
R808 100
D804 ERA91-02AVRB
R805 10K
C807
R806
RD5.1ES-T1AB2
D808
(Not used)
(C819) 10 50V
(R810)
(Not used)
IC802
FA5311BP
CS CT VCC OUT
RT FB IS GND
C814 390P
C815 0.22
R813 680
R811 4.7K 1%
C816 0.047
R812 2.2K
PC801
C817 6800P
SRW
1
2
3
A
B
C
D



(Power Board)

KV-S2065/S6055/S6050

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